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Water Resources Data for Arkansas Water Year 1971. Part 1 Surface Water Records

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1972

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Water Resources Data for Arkansas

Water Year 1971

Part 1. Surface Water Records

MARCH 3, 1849

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UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AR-71-1

Prepared in cooperation with the Arkansas Geological
Commission and with other State and Federal agencies

189

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
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NOVEMBER 1970

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DECEMBER 1970

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JANUARY 1971

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31						

FEBRUARY 1971

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28						

MARCH 1971

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APRIL 1971

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MAY 1971

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30	31					

JUNE 1971

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JULY 1971

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AUGUST 1971

S	M	T	W	T	F	S
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER 1971

S	M	T	W	T	F	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
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Water resources data for the 1971 water year for Arkansas consist of stage, discharge of streams, lakes, and reservoirs. This report contains discharge records for 104 gaging stations; stage and contents for 14 lakes and reservoirs. Also included are 114 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Arkansas.

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Water Resources Data for Arkansas

Water Year 1971

Part 1. Surface Water Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the Arkansas Geological
Commission and with other State and Federal agencies

I

Prepared in Cooperation with

Arkansas Geological Commission
Arkansas State Highway Commission
Corps of Engineers, U.S. Army
Water Quality Office, Environmental Protection Agency
Arkansas Department of Pollution Control and Ecology

Water resources records, 1971, for Arkansas are given in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Arkansas
   Part 1. Surface Water Records

2. Water Resources Data for Arkansas
   Part 2. Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
2301 Federal Office Building
Little Rock, Arkansas 72201

1972

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WATER RESOURCES DATA FOR ARKANSAS, 1971

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1971 water year for Arkansas, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report and locations of the gaging stations shown in figure 1. Records for a few pertinent gaging stations in bordering States also are included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of R. T. Sniegocki, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Arkansas.

Through September 30, 1960, the records of discharge and stage of streams and canals and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States."

Beginning with the 1961 water year, surface-water records have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; the reports are primarily for rapid release of data shortly after the end of the water year to meet local needs. Records will be published in Geological Survey water-supply papers at 5-year intervals.

COOPERATION

The U.S. Geological Survey and organizations of the State of Arkansas have had cooperative agreements for the systematic collection of surface-water records since 1927. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Arkansas Geological Commission, Norman F. Williams, State geologist.
Arkansas Department of Pollution Control and Ecology, S. Ladd Davies, director.
Arkansas State Highway Commission, W. Ward Goodman, director.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 76 gaging stations published in this report.

Assistance was also furnished by the Weather Bureau, ESSA, of the U.S. Department of Commerce, and the Water Quality Office, Environmental Protection Agency.

The Arkansas Power and Light Company aided in collecting records.

DEFINITION OF TERMS

The terms related to streamflow and other hydrologic data, as used in this report, are defined as follows:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering upstream from all main-stream stations are listed before the first main-stream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station and partial-record station has been assigned a station number. Numbers have been assigned in the same downstream order as described in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the numbers to allow for new stations that my be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 07261500, includes the part number "07" and a 6-digit station number. The number is shown just to the left of the station name. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey from experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.) Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to determine the extremes of discharge, these extensions are made by using indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating tables gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This condition necessitates the use of the slope method in which the slope or fall in a reach of the stream is used as a factor in computing discharge. Information required for computing the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed by using the gage-height record and occasional winter discharge measurements; consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologist, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed. Discharge over spillways is computed from a stage discharge relation curve defined by discharge measurements.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated by the use of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1970 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "sea level datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record, or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents), and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph, headed "Current year:," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES," headed "Period of record:," the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by the use of water-stage recorder (graphic or digital), a crest-stage gage, or nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of water-quality records, is given under "REMARKS"; for lake stations information on the dam forming the lake, the capacity, outlet works and spillway, and purpose and use of the lake, is also given under "REMARKS."

Previously published records of some stations are known to be in error from data or information later obtained. Revisions of such records are generally published along with the current records in one of the annual or compilation reports. To make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water year for which figures are revised in that report. In listing the water years, only one number is given: for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is shown by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are generally not published in the annual series of reports.

Skeleton capacity tables are published for all lakes for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for lake stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 hours each day. For some lakes, the elevation at a given time is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations, the line headed "TOTAL" gives the sum of the daily figures; it is the total cubic feet per second per day for the month. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the drainage basin is generally less than 20 inches.

For lake stations, the monthly summary gives the elevation (or gage height) at the end of the month and the change in contents during the month.

In the yearly summary below the monthly summary, the figures following maximum are the maximum daily discharges for the calendar and water years; likewise, those following minimum are the minimum daily discharges.

For lake stations the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE," certain periods are indicated for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to lake tables may be used to explain the use of new capacity tables or for other special conditions.

Accuracy of Data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. Evaporation from a lake is not included in the adjustments for changes in lake contents, unless it is so stated.

Publications

Each volume of the 1960 series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States" contains a listing of the numbers of all water-supply papers in which records of surface-water data were published for the area covered by the individual volumes. Each volume also contains a list of water-supply papers that give detailed information on major floods for the area. A new series of water-supply papers containing surface-water records for the 5-year period October 1, 1960, to September 30, 1965, also includes lists of annual and special reports published as water-supply papers.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Paper 1311(7); records for October 1950 to September 1960 have been compiled and published in Water-Supply Paper 1731(7). These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

Special reports on major floods or droughts or of other hydrologic studies have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the District Office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in the tables at the end of the surface-water records in this report. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at miscellaneous sites.

More detailed information than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the District Office. Many gaging-station records in Arkansas through 1970 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year with a frequency analysis of these data; and (3) the highest mean discharge for selected numbers of consecutive days in each year with a frequency analysis of these data.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on water temperature, and on the sediment. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

HYDROLOGIC CONDITIONS

On an annual basis, streamflow was below normal throughout most of the State. However, above-normal flow occurred during some periods.

During October and November runoff was above normal throughout the State. At the index station, Buffalo River near St. Joe, flow for October was nearly 1900 percent of the median.

Normal flow occurred in the north during the period December through February followed by below-normal flow for the remainder of the water year.

In the south, below-normal flow was experienced during December through June. At the index station Saline River near Rye the monthly mean discharge for April was the lowest for that month for the 34 years of record. The drought was ended by above-normal runoff beginning the last week in July and continuing through September. The monthly mean discharge for August for Saline River near Rye was the highest August mean for the period of record.

Most of the above-normal runoff during the year was a result of several moderate storm periods. Consequently, there were no outstanding floods during the year.

SELECTED REFERENCES

Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.

Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

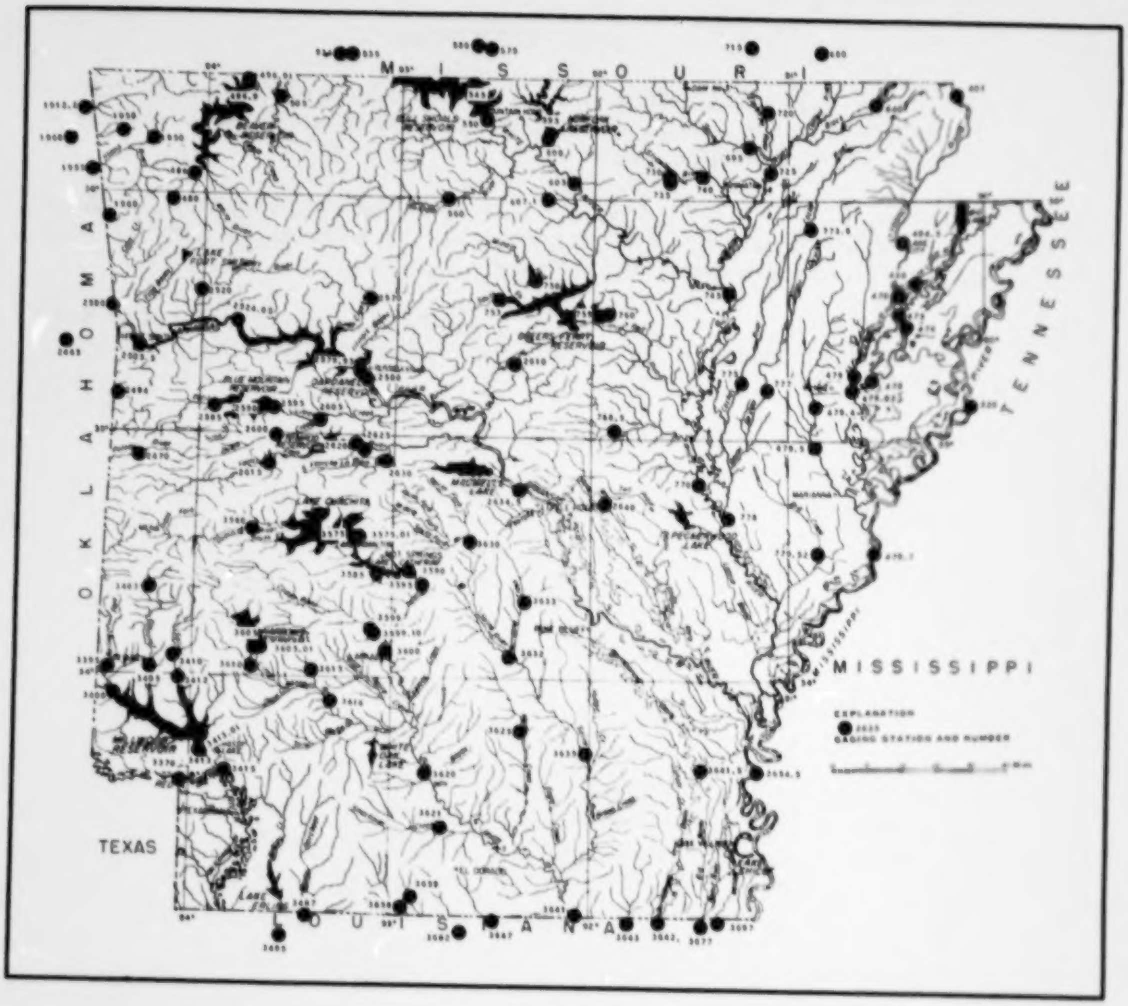
MISSOURI
OKLAHOMA
TEXAS
LOUISIANA
MISSISSIPPI
TENNESSEE
EXPLANATION
GAGING STATION AND NUMBER

Figure 1.--Locations of continuous record gaging stations.

GAGING-STATION RECORDS

MISSISSIPPI RIVER MAIN STEM

07032000 Mississippi River at Memphis, Tenn.

LOCATION.--Lat 35°07'37", long 90°04'25", Shelby County, on left bank 50 ft downstream from Harahan Bridge at Memphis, 1.3 miles downstream from Beale Street gage, 3.5 miles downstream from Wolf River, 70 miles upstream from St. Francis River, and at mile 734.8.

DRAINAGE AREA.--932,800 sq mi, approximately.

PERIOD OF RECORD.--Discharge: *January 1933 to current year. Monthly discharge only for some periods, published in WSP 1311.*

Gage heights: October 1934 to September 1951 and October 1952 to current year in reports of Geological Survey. Since November 1871, at Beale Street gage, in reports of Mississippi River Commission. December 1890 to August 1932 at Beale Street gage, September 1932 to December 1934 at nonrecording gage 1,000 ft downstream, and since December 1934 at water-stage recorder at present site, in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 183.91 ft above mean sea level. Prior to Apr. 16, 1934, Beale Street nonrecording gage 1.3 miles upstream at same datum. Apr. 16 to Dec. 21, 1934, nonrecording gage 1,000 ft downstream at same datum.

AVERAGE DISCHARGE.--38 years, 452,500 cfs (327,800,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,190,000 cfs Mar. 7-9; maximum gage height, 32.78 ft Mar. 8; minimum discharge, 201,000 cfs Sept. 8 (gage height, 0.20 ft).

Period of record: Maximum discharge, 1,980,000 cfs Feb. 8, 1937; maximum gage height, 48.69 ft Feb. 10, 1937; minimum discharge, 79,200 cfs Aug. 28, 1936; minimum gage height, -5.35 ft Jan. 24, 1956.

Maximum stage prior to 1937, 46.55 ft Apr. 9, 1913, at Beale Street gage or about 45.2 ft at present site.

REMARKS.--Records good. Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Records furnished by Corps of Engineers.

GAGE-HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.90	7.20	11.80	19.60	13.70	30.60	18.70	10.70	12.20	7.40	5.40	4.00
2	18.00	8.40	10.60	19.50	11.00	31.20	18.50	10.80	11.60	7.40	5.50	3.60
3	18.20	9.80	9.10	19.10	11.30	31.70	18.10	11.00	10.90	7.40	6.20	2.40
4	17.60	10.90	7.90	18.60	10.80	32.00	17.50	11.00	11.00	7.10	6.40	1.50
5	16.00	11.10	6.70	16.90	10.10	32.20	16.90	11.00	11.00	6.40	7.00	1.00
6	13.90	11.10	6.30	15.10	9.10	32.40	16.50	11.20	11.10	5.70	7.30	1.00
7	11.70	11.70	6.20	13.70	8.50	32.70	16.40	11.40	11.30	5.10	7.70	.80
8	9.70	12.60	6.20	13.20	8.70	32.80	16.20	11.30	11.40	4.30	7.90	.20
9	8.30	13.30	6.40	13.90	9.80	32.70	16.10	11.30	11.00	3.70	8.30	.40
10	6.80	13.40	6.80	14.60	11.00	32.70	16.00	11.80	10.70	3.30	8.60	.80
11	5.60	13.40	7.00	15.40	15.00	32.40	15.80	12.30	10.40	2.70	9.10	1.00
12	5.30	13.90	7.00	15.90	17.60	31.90	15.30	12.90	11.10	2.40	9.60	1.90
13	5.20	13.50	6.90	16.40	19.40	31.30	14.70	14.90	11.20	2.90	9.30	1.50
14	5.40	13.80	6.90	16.60	20.40	30.60	14.20	16.90	10.40	4.00	8.60	1.20
15	6.70	13.90	6.80	16.80	21.00	29.60	13.80	18.60	9.60	5.20	7.10	1.20
16	10.20	13.90	6.80	17.10	21.30	28.30	13.50	20.20	9.20	6.30	5.40	1.20
17	12.90	13.40	7.20	17.00	21.00	27.20	13.30	21.70	9.60	7.20	4.60	1.50
18	14.00	12.70	8.50	16.40	20.60	26.30	13.10	22.90	10.50	8.40	3.80	2.00
19	13.80	12.20	10.00	15.50	20.30	25.70	12.70	23.00	11.60	9.10	3.70	3.20
20	13.00	12.10	10.90	14.80	20.10	25.20	12.10	23.20	12.50	9.00	2.40	5.10
21	11.60	11.90	11.40	14.30	20.00	24.80	11.50	23.00	13.10	8.50	1.70	6.40
22	10.70	12.10	11.80	14.30	21.00	24.60	10.90	22.60	13.10	8.30	1.00	7.00
23	9.20	12.40	12.90	14.10	21.40	24.20	10.80	21.80	12.80	8.40	.90	6.90
24	8.30	12.50	14.10	13.80	23.00	23.40	10.10	20.50	12.20	8.40	1.60	6.40
25	8.00	12.60	15.50	13.40	25.40	22.50	9.60	19.20	11.10	8.70	2.40	5.90
26	7.70	13.20	16.80	12.60	27.30	21.70	9.00	17.70	9.60	9.10	3.80	5.40
27	7.20	13.80	17.80	12.00	28.70	20.60	9.30	16.70	8.80	9.40	4.20	4.70
28	7.10	13.90	18.70	11.70	29.70	19.70	9.60	15.90	8.30	8.00	3.90	3.70
29	7.20	13.50	19.20	11.50	-------	19.40	10.00	14.90	8.00	6.60	3.60	2.60
30	7.20	12.80	19.30	11.10	-------	19.20	10.50	13.80	7.60	5.90	4.00	2.00
31	7.00	-------	19.40	10.70	-------	19.00	-------	12.90	-------	4.60	4.00	-------

07032000 Mississippi River at Memphis, Tenn.--continued

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	589	316	407	666	393	1,100	618	379	431	314	289	277
2	602	343	378	663	407	1,120	610	382	412	315	293	255
3	595	372	346	649	403	1,140	597	386	397	315	305	238
4	566	390	317	628	391	1,150	581	386	401	309	316	223
5	512	392	299	569	374	1,160	565	386	402	297	320	216
6	450	395	295	520	352	1,180	556	394	404	286	327	214
7	506	410	296	482	343	1,190	559	398	410	276	333	209
8	345	433	299	467	350	1,190	557	398	411	266	338	201
9	319	446	305	475	370	1,190	550	403	405	256	345	206
10	282	447	313	470	435	1,180	552	418	398	250	353	210
11	272	447	318	530	552	1,160	540	431	405	243	363	221
12	270	448	317	543	598	1,130	521	456	411	242	371	220
13	272	449	317	557	658	1,100	501	513	410	249	364	213
14	281	453	315	562	692	1,060	487	565	390	265	345	209
15	317	459	315	568	714	1,020	474	630	371	289	312	219
16	402	456	314	574	719	967	465	686	367	307	283	211
17	446	463	327	568	716	920	456	746	370	326	268	216
18	467	426	355	547	702	922	447	761	399	348	257	227
19	458	416	389	518	695	863	434	780	425	350	249	249
20	437	414	407	499	694	837	418	787	444	355	239	279
21	402	411	417	480	702	821	399	783	458	347	230	304
22	379	416	430	488	730	807	395	765	452	346	218	313
23	349	423	460	480	756	782	380	732	442	346	220	312
24	331	427	495	470	824	755	365	688	424	347	230	310
25	320	431	528	456	920	724	351	642	390	353	247	296
26	319	446	565	437	984	696	344	596	358	365	266	289
27	311	460	594	423	1,040	663	346	567	342	363	269	277
28	310	460	624	416	1,070	638	353	546	332	338	261	270
29	313	449	637	413	------	632	366	509	324	309	257	245
30	312	432	641	400	------	627	374	479	315	298	268	239
31	307	------	645	391	------	623	------	451	------	296	270	------
TOTAL	12,137	12,710	12,665	15,922	17,592	29,347	14,163	17,040	11,908	9,573	9,013	7,368
MEAN	392	424	409	514	628	947	472	550	397	309	291	246
MAX	602	463	645	666	1,070	1,190	618	787	458	365	371	313
MIN	270	316	295	391	343	623	344	379	315	242	218	201
AC-FT	24,070	25,210	25,120	31,580	34,890	58,210	28,090	33,800	23,620	18,990	17,880	14,610

CAL YR 1970 TOTAL 179,160 MEAN 491 MAX 1,140 MIN 184.0 AC-FT 355,300
WTR YR 1971 TOTAL 169,430 MEAN 464 MAX 1,190 MIN 201.0 AC-FT 336,100

07040100 St. Francis River at St. Francis, Ark.

LOCATION.--Lat 36°27'21", long 90°08'13", in sec.18, T.21 N., R.9 E., Clay County, at bridge on U.S. Highway 62 at St. Francis and at mile 229.

DRAINAGE AREA.--1,772 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1930 to December 1946 in files of Corps of Engineers, Memphis District. January 1946 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers. Gage-height records since 1916 in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 270.57 ft above mean sea level. Prior to Aug. 1, 1946, nonrecording gage.

AVERAGE DISCHARGE.--41 years, 2,052 cfs (1,487,000 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 12,100 cfs May 1; maximum gage height, 21.25 ft Apr. 27, 28; minimum discharge, 119 cfs Sept. 17 (gage height, 2.20 ft).

Water year 1971: Maximum discharge, 6,370 cfs Feb. 23 (gage height, 19.52 ft); minimum daily, 106 cfs Sept. 18.

Period of record: Maximum discharge, 39,200 cfs Mar. 15, 1935 (gage height, 28.2 ft); minimum, 55 cfs Sept. 20, 1954.

Maximum stage since at least 1916, that of Mar. 15, 1935.

REMARKS.--Some regulation by Wappapello Lake (Missouri), 80 miles upstream, since Apg. 1, 1941 (capacity, 625,000 acre-ft). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	172	306	2,380	1,080	1,100	5,170	11,600	752	739	266	225
2	294	226	293	1,650	1,440	1,270	5,780	10,900	814	758	200	241
3	271	321	273	1,140	1,870	2,700	5,960	9,960	952	773	219	278
4	226	350	295	916	1,670	3,910	5,680	9,100	906	757	223	255
5	208	309	294	801	1,290	4,130	4,740	8,370	557	729	346	263
6	201	270	284	737	1,050	3,770	3,550	7,730	481	654	410	214
7	231	248	303	709	1,220	3,890	2,680	6,240	456	560	446	218
8	268	210	314	698	1,470	4,200	1,990	6,650	674	484	415	239
9	274	173	408	775	1,320	4,310	1,660	6,280	998	370	529	244
10	270	152	543	742	1,080	4,310	1,530	6,850	1,020	302	853	223
11	362	151	394	631	572	4,250	1,480	6,910	934	272	1,180	178
12	425	188	332	552	1,050	4,190	1,350	6,780	819	308	1,530	169
13	797	273	397	529	958	4,030	1,190	6,790	1,200	332	2,290	227
14	840	255	612	563	904	3,790	1,080	5,650	1,970	334	2,210	236
15	556	250	579	502	849	3,500	1,180	6,570	3,680	312	2,110	192
16	336	272	465	524	875	3,020	1,200	6,120	3,570	268	1,530	158
17	262	345	883	616	919	3,060	1,070	5,550	3,800	255	953	126
18	227	540	1,780	827	1,050	3,680	1,060	5,030	4,850	234	667	147
19	186	913	2,130	812	1,060	3,980	1,910	4,130	5,890	336	550	226
20	163	908	2,320	677	768	4,370	3,150	3,180	5,730	410	589	278
21	179	913	2,360	620	674	4,560	3,860	2,280	5,250	410	382	655
22	222	687	2,300	400	728	4,630	4,820	1,690	4,950	409	406	1,400
23	371	481	2,200	594	902	4,550	5,400	1,350	4,740	407	432	1,680
24	247	362	2,070	575	1,140	4,420	8,280	1,160	4,130	339	382	1,240
25	255	310	1,960	544	1,180	4,350	10,300	967	3,240	282	315	807
26	255	290	1,560	627	1,330	4,450	11,200	887	2,540	223	277	659
27	255	294	1,080	765	1,230	4,820	11,600	985	1,910	191	295	1,030
28	244	337	904	786	1,160	4,830	11,500	904	1,520	184	265	1,140
29	226	350	1,550	740	------	4,840	11,100	888	1,220	227	228	873
30	167	321	2,650	783	------	4,990	9,870	1,050	922	296	189	802
31	157	------	2,680	947	------	5,170	------	805	------	257	188	------
TOTAL	9,165	10,871	34,519	24,162	31,239	123,070	141,340	153,356	70,475	12,412	20,875	14,623
MEAN	296	362	1,114	779	1,116	3,970	4,711	4,947	2,349	400	673	487
MAX	840	913	2,680	2,380	1,870	5,170	11,600	11,600	5,890	773	2,290	1,680
MIN	157	151	273	400	674	1,100	1,060	805	456	184	188	126
AC-FT	18,180	21,560	68,470	47,930	61,960	244,100	280,300	304,200	139,800	24,620	41,410	29,000

CAL YR 1969 TOTAL 795,315 MEAN 2,179 MAX 15,600 MIN 111 AC-FT 1,578,000
WTR YR 1970 TOTAL 646,107 MEAN 1,770 MAX 11,600 MIN 126 AC-FT 1,282,000

07040100 St. Francis River at St. Francis, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	950	993	920	1,990	1,070	5,600	691	577	559	374	243	156
2	777	1,370	821	1,790	1,030	5,420	569	456	890	345	340	201
3	580	1,540	867	1,830	995	5,160	445	367	1,360	329	342	391
4	530	1,310	760	3,510	978	4,590	365	299	1,230	325	284	591
5	510	944	717	4,190	1,140	3,850	333	254	968	325	296	326
6	449	773	617	4,130	1,410	3,010	310	237	718	398	287	223
7	389	850	570	3,950	1,610	2,270	302	235	594	303	291	243
8	375	951	546	3,630	2,160	1,780	292	232	548	250	319	272
9	367	1,040	590	3,220	2,690	1,560	298	230	868	217	406	282
10	352	1,020	604	2,970	2,870	1,780	350	242	1,360	209	612	263
11	393	1,100	592	2,750	2,930	2,110	560	291	923	220	645	201
12	444	1,110	575	2,460	3,480	2,040	816	327	812	287	549	148
13	815	1,070	575	2,530	4,600	1,860	1,130	353	777	496	421	131
14	831	1,300	576	4,490	4,040	1,790	1,300	397	627	553	351	119
15	1,100	1,430	588	5,200	3,720	1,940	1,270	392	638	452	282	117
16	1,690	1,370	1,330	5,410	3,450	2,120	1,100	898	641	313	225	115
17	2,070	1,200	2,480	5,490	3,450	2,140	889	1,280	683	247	186	108
18	2,260	989	2,750	5,480	3,400	2,110	793	1,270	692	263	169	106
19	2,360	995	2,710	5,340	3,080	1,990	824	955	647	291	158	107
20	2,260	1,810	2,640	5,050	3,290	1,790	864	818	637	292	159	109
21	1,720	1,590	3,380	4,580	3,620	1,590	845	731	633	352	172	107
22	1,530	1,290	4,700	4,080	5,730	1,460	768	714	622	429	329	108
23	855	1,380	4,720	3,620	6,320	1,340	757	713	644	370	628	108
24	735	1,640	3,900	3,210	6,040	1,240	750	817	645	310	1,120	109
25	688	1,730	3,220	2,690	5,850	1,200	958	830	861	421	906	113
26	677	1,370	2,790	2,070	5,840	1,170	1,040	778	862	1,090	598	117
27	759	1,040	2,530	1,550	5,790	1,100	920	968	682	906	404	122
28	845	873	2,400	1,340	5,730	983	969	859	566	599	319	119
29	855	898	2,320	1,300	------	387	1,090	682	479	414	248	112
30	721	960	2,230	1,250	------	580	831	595	407	317	196	108
31	653	------	2,070	1,150	------	694	------	556	------	238	168	------
TOTAL	29,540	35,936	56,088	102,250	96,313	66,654	22,429	18,353	22,573	11,935	11,733	5,332
MEAN	953	1,198	1,809	3,298	3,440	2,150	748	592	752	385	378	178
MAX	2,360	1,810	4,720	5,490	6,320	5,600	1,300	1,280	1,360	1,090	1,120	591
MIN	352	773	546	1,150	978	387	292	230	407	209	158	106
AC-FT	58,590	71,280	111,300	202,800	191,000	132,200	44,490	36,400	44,770	23,670	23,270	10,580

CAL YR 1970 TOTAL 713,116 MEAN 1,954 MAX 11,600 MIN 126 AC-FT 1,414,000
WTR YR 1971 TOTAL 479,136 MEAN 1,313 MAX 6,320 MIN 106 AC-FT 950,400

07040450 St. Francis River at Lake City, Ark.

LOCATION.--Lat 35°[illegible]'16", long 90°25'56", in SE¼ sec.22, T.14 N., R.6 E., Craighead County, on left bank pier of bridge on State Highway 18 at Lake City and at mile 173.6.

DRAINAGE AREA.--2,374 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1931 to December 1945 in files of Corps of Engineers. January 1946 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers. Gage-height records since 1916 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 217.69 ft above mean sea level. Prior to Sept. 1, 1948, nonrecording gage at railroad bridge 0.1 mile downstream at same datum.

AVERAGE DISCHARGE.--40 years, 2,904 cfs (2,104,000 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 13,800 cfs May 3 (gage height, 10.31 ft); minimum daily, 319 cfs Nov. 19.

Water year 1971: Maximum daily discharge, 8,290 cfs Feb. 24; minimum daily, 218 cfs Sept. 29.

Period of record: Maximum discharge, 36,700 cfs Jan. 22-24, 1937 (gage height, 13.3 ft); minimum, 60 cfs Aug. 29, Sept. 1, 1936.

Maximum stage since at least 1916, that of Jan. 22-24, 1937.

REMARKS.--Some regulation by Wappapello Lake (Missouri) 135 miles upstream since Apr. 1, 1941 (capacity, 625,000 acre-ft).

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	459	442	1,010	5,670	1,320	1,490	4,980	10,500	2,670	3,120	646	1,060
2	433	440	979	4,660	1,640	1,630	6,600	13,300	2,470	2,750	659	1,320
3	431	423	600	3,640	1,980	3,310	7,140	13,300	2,320	2,400	677	1,020
4	429	393	580	3,050	1,980	5,030	7,140	12,100	2,180	2,050	683	1,080
5	429	362	566	2,820	1,920	5,680	6,580	10,900	2,100	1,800	686	1,490
6	431	348	572	2,760	2,010	5,080	5,980	10,200	1,980	1,600	764	1,290
7	484	366	623	2,680	2,370	4,140	5,590	9,540	1,880	1,420	853	1,010
8	599	407	647	2,600	2,580	3,500	5,360	8,860	1,780	1,340	846	844
9	499	457	644	2,520	2,650	3,370	5,120	8,190	1,640	1,410	1,020	774
10	427	490	620	2,440	2,670	3,650	4,780	7,620	1,490	1,390	1,190	756
11	436	502	595	2,360	2,660	3,930	4,330	7,200	1,340	1,290	1,170	726
12	563	492	581	2,280	2,570	4,140	3,810	6,850	1,420	1,160	1,080	698
13	637	474	600	2,190	2,490	4,310	3,320	6,490	1,600	1,090	997	677
14	608	446	627	2,110	2,600	4,370	2,990	6,090	1,940	1,010	960	647
15	580	420	639	2,030	3,050	4,370	2,720	5,930	2,430	945	968	619
16	591	389	628	1,950	2,840	4,370	2,490	6,020	3,400	1,020	1,010	642
17	634	359	631	1,870	2,600	4,930	2,400	6,060	4,930	1,060	1,070	641
18	663	333	661	1,790	2,410	6,390	2,300	5,960	5,160	967	1,120	915
19	666	319	687	1,710	2,250	6,680	2,700	5,820	4,700	886	1,240	3,460
20	627	1,440	707	1,630	2,200	6,210	3,370	5,620	4,420	832	1,450	5,310
21	549	1,370	769	1,540	1,980	5,290	3,350	5,290	4,520	827	1,540	5,300
22	464	1,300	832	1,460	1,870	4,640	3,130	4,970	4,790	831	1,520	4,280
23	398	1,240	899	1,380	1,780	4,340	2,910	4,620	5,190	831	1,290	3,070
24	353	1,210	985	1,300	1,650	4,270	3,140	4,180	5,360	827	1,100	2,230
25	362	1,170	1,090	1,220	1,590	4,370	4,620	3,710	5,290	820	987	1,710
26	394	1,140	1,210	1,140	1,480	4,660	7,420	3,250	5,030	822	870	1,800
27	416	1,120	1,450	1,170	1,350	4,780	8,450	2,900	4,720	813	810	1,900
28	423	1,090	1,830	1,210	1,400	4,820	7,840	2,620	4,400	792	767	1,860
29	427	1,060	3,360	1,260	------	4,800	7,300	2,380	4,020	760	725	1,860
30	429	1,030	5,170	1,320	------	4,790	7,580	2,360	3,560	716	683	1,830
31	431	------	6,070	1,300	------	4,800	------	3,130	------	672	649	------
TOTAL	15,272	21,032	36,862	67,060	59,930	138,140	145,440	205,960	98,730	38,251	30,030	50,819
MEAN	493	701	1,189	2,163	2,140	4,456	4,848	6,644	3,291	1,234	969	1,694
MAX	666	1,440	6,070	5,670	3,050	6,680	8,450	13,300	5,360	3,120	1,540	5,310
MIN	353	319	566	1,140	1,320	1,490	2,300	2,360	1,340	672	646	619
AC-FT	30,290	41,720	73,120	133,000	118,900	274,000	288,500	408,500	195,600	75,870	59,560	100,800

CAL YR 1969 TOTAL 1,091,403 MEAN 2,990 MAX 16,300 MIN 319 AC-FT 2,165,000
WTR YR 1970 TOTAL 907,526 MEAN 2,486 MAX 13,300 MIN 319 AC-FT 1,800,000

07040450 St. Francis River at Lake City, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,730	2,490	1,990	3,480	2,330	6,050	2,050	1,450	854	822	770	432
2	1,630	2,210	1,990	3,280	1,910	6,370	1,950	1,450	849	802	710	413
3	1,550	2,000	1,930	3,200	1,580	6,850	1,810	1,440	922	759	632	421
4	1,490	1,860	1,860	4,010	1,380	6,940	1,700	1,400	932	710	630	438
5	1,430	1,750	1,770	4,010	1,270	6,870	1,580	1,340	972	684	642	438
6	1,370	1,680	1,680	3,800	1,360	6,670	1,460	1,220	1,090	764	615	418
7	1,360	1,660	1,600	3,460	1,360	6,460	1,350	1,160	1,310	654	567	398
8	1,400	1,690	1,530	3,090	1,250	6,120	1,190	991	1,590	619	518	582
9	2,090	2,060	1,460	3,040	1,060	5,640	1,030	818	2,150	600	560	354
10	2,240	2,360	1,390	3,280	1,700	5,260	884	780	1,920	584	612	322
11	2,160	2,380	1,380	3,700	893	5,010	820	766	1,660	554	590	292
12	2,080	2,210	1,430	3,910	2,370	4,620	800	824	1,390	522	592	270
13	2,140	2,040	1,450	3,990	3,120	4,170	786	1,370	1,390	497	590	253
14	2,320	2,340	1,370	4,260	3,490	3,700	792	1,620	1,190	474	594	316
15	2,110	2,500	1,350	4,470	3,720	3,400	810	1,700	1,070	476	600	234
16	1,880	2,420	2,150	4,390	3,600	3,300	864	1,510	1,060	514	602	238
17	1,750	2,230	2,530	4,050	3,510	3,270	1,050	1,150	1,000	550	586	238
18	1,680	2,070	2,590	3,780	4,500	3,240	1,240	824	1,010	562	535	246
19	1,680	1,980	2,400	3,850	4,440	3,140	1,410	761	1,400	556	486	257
20	1,850	1,970	2,150	4,170	4,500	3,020	1,550	770	1,100	520	438	260
21	1,940	2,050	2,720	4,580	4,710	2,950	1,660	784	822	484	411	273
22	2,060	2,110	4,550	4,790	6,640	2,970	1,660	818	807	463	493	251
23	2,210	2,080	5,870	4,980	8,030	2,970	1,740	845	790	463	586	244
24	2,370	1,990	6,260	5,100	8,290	2,940	1,720	1,000	786	495	550	238
25	2,490	1,920	5,510	4,960	7,310	2,940	1,660	1,230	780	554	482	230
26	2,540	1,900	4,670	4,740	6,280	2,770	1,600	1,250	770	579	425	226
27	2,900	1,900	4,290	4,490	5,960	2,750	1,520	1,250	778	564	385	222
28	3,460	1,930	4,270	3,770	6,010	2,610	1,450	1,150	802	518	383	247
29	3,710	1,950	4,240	3,200	------	2,460	1,420	1,000	810	554	425	218
30	3,330	1,960	4,100	2,910	------	2,320	1,430	893	831	728	465	240
31	3,870	------	3,910	2,630	------	2,160	------	845	------	824	561	------
TOTAL	66,820	61,690	86,390	121,370	102,573	129,940	40,986	34,409	32,835	18,449	17,035	9,209
MEAN	2,155	2,056	2,787	3,915	3,663	4,192	1,366	1,110	1,095	595	550	307
MAX	3,870	2,500	6,260	5,100	8,290	6,940	2,050	1,700	2,150	824	770	582
MIN	1,360	1,660	1,350	2,630	893	2,160	786	761	770	463	383	218
AC-FT	132,500	122,400	171,400	240,700	203,500	257,700	81,300	68,250	65,130	36,590	33,790	18,270

CAL YR 1970 TOTAL 1,049,260 MEAN 2,875 MAX 13,300 MIN 619 AC-FT 2,081,000
WTR YR 1971 TOTAL 721,706 MEAN 1,977 MAX 8,290 MIN 218 AC-FT 1,432,000

07046600 Right Hand Chute of Little River at Rivervale, Ark.

LOCATION.--Lat 35°40'20", long 90°20'12", in SW¼ sec.10, T.12 N., R.7 E., Poinsett County, at bridge on State Highway 135 at Rivervale, 9 miles upstream from St. Francis River.

DRAINAGE AREA.--2,106 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1947 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 213.15 ft above mean sea level. Prior to Oct. 6, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 2,784 cfs (2,017,000 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 16,900 cfs Apr. 29 (gage height, 9.97 ft); minimum, 164 cfs Oct. 7 (gage height, 1.63 ft).

Water year 1971: Maximum discharge, 14,100 cfs Feb. 27 (gage height, 9.73 ft); minimum, 568 cfs Aug. 22 (gage height, 2.22 ft).

Period of record: Maximum discharge, 31,400 cfs Nov. 23, 1957; maximum gage height, 13.57 ft Jan. 19, 1950; minimum discharge, 80 cfs Sept. 20, 1954.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	378	446	1,860	9,080	1,680	2,250	4,540	15,100	2,630	3,230	1,080	848
2	392	420	1,760	11,400	1,800	2,290	4,290	14,000	2,750	2,930	1,020	896
3	409	406	1,630	11,200	1,900	2,720	4,660	13,400	3,350	2,680	920	872
4	392	392	1,460	9,620	1,900	4,790	6,070	13,300	3,670	2,500	896	1,110
5	378	392	1,160	7,780	2,000	6,110	7,590	12,600	3,980	2,390	896	1,240
6	364	392	1,160	6,440	2,120	7,590	7,970	11,400	4,040	2,340	1,020	1,140
7	257	411	1,140	6,160	2,430	9,480	7,230	9,850	4,010	2,340	1,180	1,110
8	308	378	1,270	6,140	2,860	9,910	5,920	8,030	3,740	2,360	1,180	1,050
9	392	364	1,300	6,070	2,710	8,950	4,900	6,730	3,430	2,520	2,010	1,020
10	430	350	1,320	6,090	2,620	7,400	4,150	5,800	3,110	3,000	1,730	984
11	364	350	1,400	6,120	2,540	6,060	3,660	5,200	2,910	2,160	1,390	984
12	420	406	1,470	6,110	2,500	4,940	3,310	5,100	2,770	2,120	1,360	1,020
13	446	446	1,520	4,990	2,340	4,240	3,010	6,630	2,700	2,030	1,390	984
14	524	491	1,500	2,780	2,320	4,890	2,800	9,140	2,740	1,960	1,540	984
15	602	420	1,480	2,420	2,110	5,220	2,560	10,700	3,830	1,900	1,390	984
16	602	406	1,440	2,500	4,260	5,970	2,360	10,600	7,150	2,090	1,360	984
17	647	472	1,390	2,570	4,010	6,170	2,360	9,440	10,200	2,030	1,270	952
18	699	654	1,310	2,430	3,230	4,990	2,250	7,930	12,100	1,860	1,180	800
19	718	1,010	1,220	2,180	2,870	5,990	2,290	6,510	11,900	1,780	1,180	2,500
20	628	1,550	1,170	2,090	2,690	6,460	3,500	5,430	11,200	1,760	1,210	3,280
21	699	1,670	1,200	1,980	2,490	9,350	4,140	4,680	9,960	1,710	1,140	2,890
22	628	1,840	1,260	1,960	2,300	10,200	4,600	4,160	9,350	1,610	1,210	2,330
23	654	1,920	1,320	1,820	2,250	9,990	5,940	3,750	8,430	1,510	1,180	2,110
24	675	2,080	1,410	1,710	2,190	9,190	7,180	3,430	7,510	1,450	1,080	1,960
25	576	2,170	1,460	1,680	2,160	8,030	8,410	3,180	6,830	1,390	800	1,820
26	472	2,260	1,500	1,710	2,110	6,960	11,100	2,970	6,090	1,300	952	1,710
27	446	2,190	1,570	1,730	2,200	6,270	14,000	2,810	4,720	1,210	920	1,660
28	446	2,100	1,710	1,660	2,230	5,660	15,900	2,810	4,590	1,210	920	1,540
29	420	2,030	2,160	1,760	------	5,430	16,700	2,690	3,990	1,180	824	1,480
30	420	1,940	3,510	1,760	------	5,220	16,200	2,630	3,570	1,120	752	1,420
31	503	------	5,350	1,660	------	5,000	------	2,570	------	1,110	752	------
TOTAL	15,289	30,356	50,410	133,600	68,820	197,720	189,590	222,570	167,250	60,780	35,732	42,662
MEAN	493	1,012	1,626	4,310	2,458	6,378	6,320	7,180	5,575	1,961	1,153	1,422
MAX	718	2,260	5,350	11,400	4,260	10,200	16,700	15,100	12,100	3,230	2,010	3,280
MIN	257	350	1,140	1,660	1,680	2,250	2,250	2,570	2,630	1,110	752	800
AC-FT	30,330	60,210	99,990	265,000	136,500	392,200	376,100	441,500	331,700	120,600	70,870	84,620

CAL YR 1969 TOTAL 1,118,723 MEAN 3,065 MAX 28,200 MIN 257 AC-FT 2,219,000
WTR YR 1970 TOTAL 1,214,779 MEAN 3,328 MAX 16,700 MIN 257 AC-FT 2,410,000

07046600 Right Hand Chute of Little River at Rivervale, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,050	2,000	1,560	3,370	1,880	12,100	1,780	1,320	1,020	1,730	1,860	1,850
2	1,270	1,920	1,680	3,020	1,860	10,700	1,850	1,270	1,100	1,670	1,780	1,650
3	1,240	1,820	1,660	3,180	1,910	8,790	1,820	1,220	1,140	1,520	1,600	1,460
4	1,140	1,800	1,730	2,820	1,960	7,380	1,790	1,190	1,240	1,490	1,580	1,120
5	1,390	1,780	1,710	3,550	2,170	6,990	1,780	1,170	1,670	1,410	1,670	1,000
6	1,050	1,800	1,660	3,420	2,400	5,390	1,620	1,170	1,990	1,650	1,650	1,070
7	1,050	1,780	1,560	3,900	2,260	5,100	1,560	1,240	2,140	1,910	1,620	978
8	872	1,610	1,560	4,200	2,190	4,720	1,490	1,240	2,190	1,690	1,650	1,190
9	752	1,590	1,300	4,130	2,170	4,370	1,490	1,240	2,120	1,520	1,760	1,490
10	920	2,110	1,270	4,190	2,150	4,170	1,560	1,220	2,010	1,350	1,910	1,390
11	920	1,960	1,180	3,940	2,120	4,020	1,490	1,240	2,120	1,270	1,900	1,410
12	920	1,800	1,390	4,120	2,510	3,860	1,490	1,620	2,670	1,240	1,740	1,520
13	2,510	1,820	1,450	3,340	4,590	3,850	1,440	1,920	3,420	1,220	1,690	1,650
14	2,820	1,920	1,560	3,140	5,040	3,760	1,490	1,950	3,670	1,240	1,540	1,800
15	3,080	2,110	1,270	3,200	5,250	3,500	1,440	1,790	3,370	1,120	1,350	1,560
16	2,460	1,980	1,560	4,240	5,480	3,360	1,460	1,690	2,910	1,440	1,240	1,520
17	2,160	1,820	3,170	6,090	5,380	3,170	1,410	1,620	2,560	1,270	1,140	1,460
18	2,160	1,800	3,080	7,480	5,210	3,030	1,410	1,520	2,250	1,120	1,050	1,410
19	2,140	1,760	2,620	8,070	5,280	2,780	1,350	1,520	2,170	1,170	890	1,380
20	2,300	1,780	2,040	7,370	5,450	2,680	1,350	1,540	2,140	1,350	846	1,350
21	2,680	1,710	3,020	6,210	5,870	2,480	1,440	1,490	2,460	1,350	708	1,300
22	2,500	1,660	5,170	5,200	6,450	654	1,440	1,460	2,460	1,320	672	1,170
23	2,470	1,710	6,630	4,370	8,240	824	1,440	1,240	2,340	1,320	618	1,140
24	2,420	1,680	7,820	3,760	10,500	1,170	1,410	978	2,340	1,240	1,050	1,070
25	2,370	1,640	9,370	3,310	12,200	1,380	1,350	934	2,230	1,170	1,880	934
26	2,220	1,510	9,210	3,020	13,900	2,100	1,300	934	2,140	1,100	1,800	890
27	2,190	1,510	7,990	2,800	13,900	2,010	1,240	912	2,100	1,000	2,100	846
28	2,260	1,560	6,440	2,520	13,300	1,940	1,270	956	1,980	1,140	2,220	744
29	2,230	1,510	5,180	2,410	------	1,920	1,270	956	1,880	1,460	2,190	708
30	2,170	1,560	4,360	2,190	------	1,880	1,350	1,000	1,760	1,820	2,110	672
31	2,030	------	5,010	2,020	------	1,820	------	1,020	------	1,920	2,070	------
TOTAL	57,744	53,010	105,210	124,580	151,620	121,898	44,580	40,570	65,590	43,220	47,884	37,732
MEAN	1,863	1,767	3,394	4,019	5,415	3,932	1,486	1,309	2,186	1,394	1,545	1,258
MAX	3,080	2,110	9,370	8,070	13,900	12,100	1,850	1,950	3,670	1,920	2,220	1,850
MIN	752	1,510	1,180	2,020	1,860	654	1,240	912	1,020	1,000	618	672
AC-FT	114,500	105,100	208,700	247,100	300,700	241,800	88,420	80,470	130,100	85,730	94,980	74,840

CAL YR 1970 TOTAL 1,334,688 MEAN 3,657 MAX 16,700 MIN 752 AC-FT 2,647,000
WTR YR 1971 TOTAL 893,638 MEAN 2,448 MAX 13,900 MIN 618 AC-FT 1,773,000

07047500 St. Francis River at Marked Tree, Ark.

LOCATION (revised).--Lat 35°31'20", long 90°25'27", in SE¼NW¼ sec.2, T.11 N., R.6 E., Poinsett County, near left bank on downstream side of bridge on U.S. Highway 63 at Marked Tree, 5.4 miles downstream from Little River, 7.6 miles downstream from dam of Poinsett County Drainage District 7, and at mile 147.0.

DRAINAGE AREA.--5,148 sq mi, includes that of floodway.

PERIOD OF RECORD.--July 1934 to current year. Gage-height records collected in same vicinity since 1904 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 196.44 ft above mean sea level. Prior to Jan. 18, 1935, nonrecording gage at site 300 ft upstream at same datum. Jan. 18, 1935, to May 26, 1971, at site 0.6 mile upstream at same datum. Auxiliary nonrecording gage Dec. 23, 1934, to Feb. 18, 1941, and since Feb. 19, 1941, water-stage recorder 3.6 miles upstream.

AVERAGE DISCHARGE.--37 years, 1,595 cfs (1,156,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,930 cfs Dec. 24 (gage height, 10.85 ft); minimum daily discharge, 196 cfs Sept. 30.

Period of record: Maximum discharge, river only: 7,120 cfs Feb. 6, 7, 1937; maximum gage height, 18.88 ft Feb. 7, 1937; minimum discharge, 63 cfs Oct. 13, 1941. Combined flow of river and floodway 1934-70: maximum daily discharge, 58,000 cfs Jan. 27, 1937; minimum, 63 cfs Oct. 13, 1941.

REMARKS.--Records good. Floodflow is diverted through St. Francis River floodway at dam of Poinsett County Drainage District 7, 7.6 miles upstream from station, and returns to St. Francis River below Marianna. Flow regulated by Wappapello Lake (Missouri) since Apr. 1, 1941, and by siphons at dam of Poinsett County Drainage District 7. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,370	2,130	1,570	1,230	1,830	1,420	1,650	1,340	1,330	1,310	1,370	1,230
2	1,320	2,050	1,570	1,120	1,800	1,270	1,650	1,330	1,290	1,290	1,350	1,190
3	1,280	1,980	1,570	1,040	1,770	1,190	1,630	1,320	1,280	1,260	1,490	1,120
4	1,240	1,920	1,550	1,240	1,760	1,220	1,620	1,300	1,300	1,230	1,930	1,080
5	1,210	1,850	1,550	1,400	1,860	1,160	1,610	1,280	1,340	1,190	2,410	1,050
6	1,180	1,800	1,550	1,330	1,870	1,110	1,590	1,280	1,400	1,230	2,360	1,040
7	1,170	1,750	1,540	1,180	1,870	1,110	1,570	1,320	1,480	1,390	2,160	1,080
8	1,170	1,710	1,510	1,070	1,860	1,070	1,560	1,320	1,580	1,560	1,920	882
9	1,260	1,730	1,490	986	1,820	1,010	1,530	1,300	1,780	1,560	1,800	888
10	1,310	1,760	1,470	929	1,770	983	1,530	1,290	1,840	1,440	2,000	360
11	1,350	1,810	1,460	888	1,730	949	1,500	1,310	1,750	1,300	1,920	290
12	1,520	1,810	1,190	857	2,000	910	1,480	1,420	1,710	1,210	1,790	281
13	1,790	1,790	689	835	2,530	889	1,460	1,740	1,730	1,150	1,580	249
14	2,190	1,870	630	824	2,660	872	1,460	1,800	1,750	1,100	1,430	249
15	2,390	1,950	645	813	2,360	847	1,450	1,760	1,830	1,050	1,320	240
16	2,380	1,960	964	790	1,620	824	1,430	1,670	1,900	1,050	1,270	233
17	2,240	1,940	1,130	778	1,350	793	1,410	1,580	1,890	1,060	1,210	224
18	2,090	1,900	1,180	778	1,180	764	1,400	1,490	1,780	1,020	1,170	222
19	1,560	1,860	1,120	772	1,060	746	1,390	1,420	1,810	1,010	1,130	220
20	1,950	1,850	1,020	754	1,060	726	1,380	1,370	1,870	1,020	1,100	217
21	1,970	1,820	1,180	739	1,240	702	1,400	1,340	1,810	1,020	1,060	213
22	2,020	1,790	2,310	1,050	2,200	687	1,400	1,230	1,730	1,010	1,050	209
23	1,990	1,770	2,870	1,960	2,420	671	1,500	1,270	1,690	1,020	1,030	206
24	1,940	1,740	2,880	2,050	2,400	652	1,500	1,270	1,630	1,050	998	203
25	1,880	1,710	2,730	2,040	2,240	653	1,470	1,270	1,590	1,040	1,090	204
26	1,820	1,670	2,510	2,020	2,000	1,060	1,450	1,370	1,560	1,040	1,190	214
27	1,860	1,650	2,210	1,990	1,810	1,720	1,420	1,370	1,520	1,020	1,280	213
28	2,100	1,640	1,960	1,950	1,610	1,750	1,390	1,370	1,450	1,020	1,350	210
29	2,28[illegible]	1,610	1,650	1,930	------	1,740	1,370	1,370	1,380	1,070	1,370	203
30	2,290	1,590	1,470	1,900	------	1,720	1,360	1,370	1,360	1,250	1,330	196
31	2,220	------	1,340	1,870	------	1,670	------	1,330	------	1,350	1,280	------
TOTAL	54,740	54,410	48,548	39,113	51,680	32,888	44,560	43,200	48,360	36,320	45,738	14,416
MEAN	1,766	1,814	1,566	1,262	1,846	1,061	1,485	1,394	1,612	1,172	1,475	481
MAX	2,390	2,130	2,880	2,050	2,660	1,750	1,650	1,800	1,900	1,560	2,410	1,230
MIN	1,170	1,590	630	739	1,060	652	1,360	1,230	1,280	1,010	998	196
AC-FT	108,600	107,900	96,290	77,580	102,500	65,230	88,380	85,690	95,920	72,040	90,720	28,590

CAL YR 1970 TOTAL 600,696 MEAN 1,646 MAX 2,890 MIN 309 AC-FT 1,191,000
WTR YR 1971 TOTAL 513,973 MEAN 1,408 MAX 2,880 MIN 196 AC-FT 1,019,000

07047600 Tyronza River near Tyronza, Ark.

LOCATION.--Lat 35°30'18", long 90°22'48", in SE¼ sec.7, T.10 N., R.7 E., Poinsett County, at bridge on U.S. Highway 63, 1.5 miles northwest of Tyronza, and at mile 34.8.

DRAINAGE AREA.--290 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1949 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 183.87 ft above mean sea level. Prior to Aug. 16, 1948, nonrecording gage. Prior to Jan. 1, 1953, datum of gage was 0.30 ft below mean sea level.

AVERAGE DISCHARGE.--22 years, 406 cfs (294,100 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 5,360 cfs Dec. 31 (gage height, 28.27 ft); minimum, 27 cfs Oct. 29 (gage height, 11.34 ft).

Water year 1971: Maximum daily discharge, 3,970 cfs Dec. 24; minimum daily, 66 cfs Sept. 14.

Period of record: Maximum discharge, 6,700 cfs Apr. 5, 1968; maximum gage height, 31.61 ft Feb. 16, 1950; minimum discharge, 13 cfs May 10, 1957.

Maximum stage since at least 1937, that of Feb. 16, 1950.

REMARKS.--Stage-discharge relation affected by backwater during high stages of St. Francis River.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	53	55	4,810	123	70	149	1,570	172	133	83	83
2	59	52	54	4,460	643	64	279	1,680	498	120	81	86
3	54	52	53	3,570	642	1,160	379	1,070	829	117	79	88
4	56	50	53	2,170	282	2,980	261	407	810	115	79	108
5	56	50	53	981	166	2,790	163	201	652	115	113	154
6	58	49	72	289	133	1,670	130	171	494	110	159	160
7	64	48	276	201	185	610	118	158	349	105	173	118
8	66	50	371	206	255	169	107	148	196	111	467	94
9	64	49	227	202	237	117	98	144	138	134	1,040	89
10	60	48	132	194	159	107	92	142	124	149	1,090	92
11	61	49	52	188	121	108	93	219	121	120	571	86
12	60	53	78	200	106	112	95	227	231	108	213	79
13	59	52	74	273	100	114	108	163	256	102	131	75
14	60	55	72	399	102	125	114	138	904	97	98	72
15	57	53	72	572	992	132	117	129	1,430	91	84	69
16	53	54	71	674	1,840	139	114	128	2,850	93	81	69
17	51	63	70	552	1,390	396	122	127	3,110	92	80	73
18	31	106	70	369	587	1,170	129	118	2,470	89	80	71
19	51	324	72	232	211	1,160	851	118	1,410	87	79	588
20	51	518	74	181	149	1,490	3,030	114	629	92	85	1,690
21	51	302	141	165	127	1,170	2,720	112	432	89	94	1,960
22	51	157	298	163	115	511	1,450	110	530	86	98	1,700
23	49	104	249	142	112	251	504	122	459	85	115	1,310
24	47	83	174	123	109	198	349	178	383	85	117	1,240
25	29	72	159	117	107	176	2,040	131	857	87	101	1,180
26	29	63	192	115	98	226	4,820	115	863	86	96	1,110
27	29	61	171	108	86	274	5,100	110	359	86	87	1,040
28	30	59	617	98	77	219	4,650	109	204	83	83	974
29	28	58	3,240	92	------	169	3,280	108	165	87	82	907
30	30	56	4,760	92	------	153	1,690	145	145	88	85	840
31	53	------	5,080	91	------	147	------	143	------	85	86	------
TOTAL	1,555	2,843	17,172	22,029	9,254	18,177	33,152	8,555	22,070	3,127	5,910	16,205
MEAN	50.2	94.8	554	711	331	586	1,105	276	736	101	191	540
MAX	66	518	5,080	4,810	1,840	2,980	5,100	1,680	3,110	149	1,090	1,960
MIN	28	48	53	91	77	64	92	108	121	83	79	69
AC-FT	3,080	5,640	34,060	43,690	18,360	36,050	65,760	16,970	43,780	6,200	11,720	32,140

CAL YR 1969 TOTAL 118,093 MEAN 324 MAX 5,080 MIN 28 AC-FT 234,200
WTR YR 1970 TOTAL 160,049 MEAN 438 MAX 5,100 MIN 28 AC-FT 317,500

07047600 Tyronza River near Tyronza, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	773	470	90	436	103	225	140	115	122	146	382	105
2	706	162	91	318	104	205	146	106	121	145	173	110
3	639	152	99	239	106	267	145	97	111	128	518	114
4	572	141	106	980	154	488	142	90	104	110	1,630	114
5	505	137	104	1,290	786	418	139	85	103	100	3,040	114
6	438	130	112	654	748	339	133	90	100	353	2,160	113
7	371	120	128	302	357	288	136	234	129	875	1,870	114
8	303	114	117	100	194	232	138	175	127	859	1,610	103
9	237	165	105	199	151	192	134	138	412	378	1,370	119
10	292	265	100	190	138	178	133	105	395	175	1,140	97
11	197	233	98	147	106	175	129	169	243	133	930	101
12	370	160	168	146	1,430	174	124	576	143	122	736	109
13	784	126	257	143	2,870	173	121	1,500	355	104	556	106
14	1,240	382	192	143	2,150	172	124	1,400	998	101	384	66
15	1,650	866	159	149	1,140	176	124	602	894	98	243	89
16	1,560	988	703	133	596	163	118	222	836	129	121	89
17	1,470	251	1,310	119	354	150	112	147	800	230	128	89
18	1,370	157	958	115	245	136	105	115	980	150	119	85
19	1,280	127	406	114	206	135	94	113	630	104	110	86
20	1,190	125	224	108	378	136	91	113	522	100	111	87
21	1,100	181	604	108	460	140	89	104	358	94	106	85
22	766	152	2,880	113	420	133	105	100	416	84	109	82
23	320	117	3,950	115	384	133	210	103	219	80	128	82
24	287	101	3,970	135	350	128	294	117	135	92	133	80
25	306	95	3,430	151	318	142	212	128	135	113	122	78
26	216	92	2,200	142	480	202	145	133	131	115	117	84
27	717	95	946	124	266	242	126	118	136	182	110	87
28	1,470	93	310	110	245	220	128	111	129	378	93	88
29	1,400	91	207	102	------	182	128	121	118	222	97	80
30	1,090	90	185	104	------	164	125	122	151	299	100	77
31	780	------	263	108	------	190	------	121	------	574	98	------
TOTAL	24,399	5,976	24,472	7,257	15,239	6,258	4,090	7,468	9,653	6,773	18,544	2,909
MEAN	787	199	789	234	544	202	136	241	322	218	598	97.0
MAX	1,650	866	3,970	1,290	2,870	488	294	1,500	998	875	3,040	103
MIN	197	90	90	100	103	128	89	85	100	80	93	66
AC-FT	48,400	11,850	48,540	14,390	30,230	12,410	8,110	14,810	19,150	13,430	36,780	5,770

CAL YR 1970 TOTAL 193,326 MEAN 530 MAX 5,100 MIN 64 AC-FT 383,500
WTR YR 1971 TOTAL 133,038 MEAN 364 MAX 3,970 MIN 66 AC-FT 263,900

07047800 St. Francis River at Parkin, Ark.

LOCATION.--Lat 35°16'23", long 90°33'23", in NE¼SE¼ sec.33, T.8 N., R.5 E., Cross County, at bridge on U.S. Highway 64 at Parkin, 1.1 miles downstream from Tyronza River, and at mile 102.0.

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1930 to date in reports of Mississippi River Commission. Gage-height records since December 1892 in reports of Mississippi River Commission and U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 175.30 ft above mean sea level. Prior to Sept. 10, 1948, nonrecording gage, and Sept. 11, 1948 to Apr. 24, 1968, water-stage recorder, at site 1.8 miles downstream at same datum.

AVERAGE DISCHARGE.--41 years, 2,809 cfs (2,035,000 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 11,900 cfs Apr. 27 (gage height, 21.11 ft); minimum, 423 cfs Dec. 2 (gage height, 2.81 ft).

Water year 1971: Maximum daily discharge, 9,100 cfs Dec. 25; minimum daily, 448 cfs Sept. 25.

Period of record: Maximum discharge, 25,300 cfs Jan. 31, 1930; maximum gage height, 34.2 ft Feb. 4-6, 1937 (backwater from Mississippi River); minimum discharge, 174 cfs Nov. 12, 1954.

Maximum stage since at least 1892, 41.6 ft, Apr. 4-6, 1897 (not comparable to stages since 1930 due to levee construction).

REMARKS.--The greater part of St. Francis River floodflow is diverted through St. Francis River floodway at lock and dam about 4 miles northwest of Marked Tree, and is not included in records for this station. Diverted flow is included in records for St. Francis Bay at Riverfront and returns to the St. Francis River below Marianna (see sta 07047900). Some regulation by Wappapello Lake (Missouri), 207 miles upstream, since Apr. 1, 1941 (capacity, 625,000 acre-ft). Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	607	937	473	11,400	1,65C	1,960	2,610	8,470	2,370	2,390	1,610	1,310
2	549	925	429	10,900	2,340	2,060	3,130	8,090	2,400	2,330	1,580	1,290
3	553	919	435	10,200	3,10C	3,160	3,350	7,090	2,480	2,290	1,560	1,310
4	547	905	442	9,03C	3,010	6,590	3,220	5,860	3,140	2,240	1,590	1,310
5	530	892	449	7,340	2,540	7,800	2,900	4,930	3,680	2,210	1,650	1,130
6	503	879	495	5,40C	2,18C	7,470	2,680	4,340	4,030	2,170	1,800	1,330
7	501	865	869	3,790	2,020	6,170	2,600	4,180	3,960	2,130	2,000	1,630
8	537	856	1,270	3,040	2,070	4,540	2,620	3,940	3,570	2,140	2,290	1,670
9	553	851	1,260	2,600	2,220	3,550	2,610	4,090	3,120	2,140	3,360	1,510
10	524	849	1,050	2,100	2,200	3,090	2,590	4,510	2,830	2,110	4,090	1,150
11	587	851	791	2,070	2,07C	2,810	2,570	4,870	2,640	2,170	4,300	983
12	613	865	654	2,030	1,970	2,660	2,530	5,030	2,560	2,250	3,870	924
13	618	864	586	1,850	1,910	2,570	2,450	5,050	2,530	2,150	3,190	891
14	695	862	544	1,630	1,890	2,500	2,330	4,920	2,560	2,070	2,540	868
15	780	841	504	1,730	2,280	2,450	2,390	4,730	3,200	2,020	1,810	1,130
16	866	819	464	1,890	3,89C	2,400	2,420	4,430	4,070	2,150	1,430	1,350
17	946	835	465	1,940	4,660	2,540	2,490	4,090	5,330	2,010	1,580	1,360
18	1,010	776	471	1,790	4,200	3,510	2,490	3,570	6,070	1,890	1,630	1,410
19	1,080	1,220	475	1,530	3,160	4,260	3,070	3,070	6,030	1,810	1,600	1,450
20	1,130	1,600	482	1,270	2,200	4,600	5,800	2,660	5,340	1,770	1,560	2,240
21	1,180	1,860	585	1,070	1,64C	4,460	7,250	2,470	4,420	1,750	1,600	4,020
22	1,180	1,880	762	1,000	1,330	3,990	7,010	2,410	3,740	1,750	1,580	5,190
23	1,180	1,780	914	941	1,160	3,540	5,850	2,420	3,420	1,750	1,610	5,500
24	1,180	1,720	780	887	1,040	3,190	4,490	2,460	3,240	1,730	1,620	5,160
25	1,170	1,640	832	847	964	3,010	5,630	2,540	3,120	1,710	1,590	4,420
26	1,150	1,570	930	816	1,08C	3,220	10,600	2,580	3,310	1,690	1,530	3,730
27	1,120	1,440	1,020	827	1,560	3,330	11,800	2,490	3,290	1,680	1,470	3,150
28	1,080	1,060	1,600	1,240	1,830	3,210	11,600	2,360	2,950	1,660	1,430	2,650
29	992	685	7,220	1,510	-------	2,980	10,900	2,250	2,660	1,660	1,390	2,310
30	967	548	10,100	1,57C	-------	2,750	9,450	2,240	2,490	1,640	1,370	2,070
31	951	-------	11,300	1,610	-------	2,610	-------	2,290	-------	1,620	1,350	-------
TOTAL	25,879	32,594	48,651	95,848	62,204	112,980	141,430	124,350	104,550	61,080	61,580	64,446
MEAN	835	1,086	1,569	3,092	2,222	3,645	4,714	4,011	3,485	1,970	1,986	2,148
MAX	1,180	1,880	11,300	11,400	4,660	7,800	11,800	8,470	6,070	2,390	4,300	5,500
MIN	501	548	429	816	964	1,960	2,330	2,240	2,370	1,620	1,350	868
AC-FT	51,330	64,650	96,500	190,100	123,400	224,100	280,500	246,600	207,400	121,200	122,100	127,800

CAL YR 1969 TOTAL 814,835 MEAN 2,232 MAX 11,800 MIN 429 AC-FT 1,616,000
WTR YR 1970 TOTAL 935,592 MEAN 2,563 MAX 11,800 MIN 429 AC-FT 1,856,000

07047800 St. Francis River at Parkin, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,910	3,490	1,830	2,520	2,070	4,110	2,020	1,700	1,480	1,610	2,580	1,440
2	1,800	2,820	1,800	2,400	2,040	3,900	1,960	1,680	1,450	1,610	2,170	1,400
3	1,720	2,480	1,780	2,150	2,020	4,030	1,930	1,640	1,430	1,530	2,800	1,350
4	1,650	2,310	1,790	2,720	2,050	4,360	1,900	1,620	1,400	1,450	4,940	1,300
5	1,990	2,200	1,790	3,550	2,560	4,520	1,840	1,600	1,440	1,400	7,050	1,260
6	1,530	2,110	1,770	3,600	3,100	4,530	1,820	1,620	1,520	1,990	7,710	1,220
7	1,540	2,050	1,760	3,000	3,130	4,510	1,810	2,040	1,610	1,920	7,370	1,210
8	1,570	1,990	1,760	2,250	2,770	4,470	1,800	2,100	1,880	2,510	6,300	1,200
9	1,700	1,990	1,740	1,740	2,460	4,480	1,800	1,890	2,200	2,340	5,740	1,160
10	1,810	2,080	1,680	1,500	2,260	4,380	1,790	1,840	2,430	2,170	5,630	1,000
11	1,950	2,180	1,630	1,360	2,120	4,310	1,780	2,010	2,450	1,820	5,260	711
12	2,110	2,210	1,600	1,290	2,900	4,190	1,770	2,840	2,230	1,660	5,130	654
13	2,780	2,110	1,550	1,240	5,670	4,090	1,760	4,570	2,060	1,580	4,180	646
14	4,260	2,380	1,340	1,220	6,770	3,950	1,750	4,960	2,440	1,480	3,150	605
15	5,390	3,160	1,150	1,190	6,510	3,600	1,750	4,340	2,840	1,390	2,480	572
16	5,670	3,450	1,360	1,160	5,480	3,190	1,750	3,390	3,190	1,340	2,080	580
17	5,100	3,030	2,180	1,120	3,540	2,760	1,750	2,660	3,230	1,370	1,870	547
18	4,000	2,620	2,800	1,080	2,610	2,450	1,740	2,240	3,130	1,400	1,760	515
19	3,090	2,300	2,690	1,050	2,120	2,020	1,720	2,020	3,290	1,350	1,680	506
20	2,750	2,200	2,180	1,020	2,030	1,680	1,740	1,900	3,070	1,320	1,610	502
21	3,130	2,250	2,070	1,010	3,300	1,490	1,740	1,820	2,740	1,300	1,560	480
22	3,520	2,330	3,960	997	6,730	1,300	1,910	1,740	2,510	1,290	1,560	476
23	3,320	2,260	7,490	1,080	8,110	1,180	2,770	1,640	2,310	1,320	1,570	468
24	3,030	2,130	8,850	1,720	8,200	1,060	2,720	1,650	2,030	1,380	1,500	455
25	2,970	2,040	9,100	2,100	7,240	1,080	2,440	1,620	1,840	1,370	1,450	448
26	2,780	1,980	8,720	2,200	6,050	1,140	2,150	1,580	1,750	1,410	1,450	455
27	3,100	1,930	7,600	2,190	5,140	1,540	1,970	1,590	1,780	1,480	1,470	452
28	4,660	1,900	5,990	2,160	4,520	2,020	1,860	1,580	1,750	1,600	1,480	464
29	5,530	1,880	4,410	2,130	------	2,150	1,800	1,540	1,580	1,740	1,480	467
30	5,300	1,860	3,170	2,110	------	2,150	1,750	1,520	1,520	2,590	1,480	455
31	4,420	------	2,540	2,100	------	2,080	------	1,510	------	2,800	1,460	------
TOTAL	95,680	69,720	100,080	56,957	113,500	92,720	57,290	66,450	64,580	51,320	97,950	23,076
MEAN	3,086	2,324	3,228	1,837	4,054	2,991	1,910	2,144	2,153	1,655	3,160	769
MAX	5,670	3,490	9,100	3,600	8,200	4,530	2,770	4,960	3,290	2,800	7,710	1,440
MIN	1,530	1,860	1,150	997	2,020	1,060	1,720	1,510	1,400	1,290	1,450	448
AC-FT	189,800	138,300	198,500	113,000	225,100	183,900	113,600	131,800	128,100	101,800	194,300	45,770

CAL YR 1970 TOTAL 1,093,948 MEAN 2,997 MAX 11,800 MIN 816 AC-FT 2,170,000
WTR YR 1971 TOTAL 889,323 MEAN 2,437 MAX 9,100 MIN 448 AC-FT 1,764,000

07047900 St. Francis Bay at Riverfront, Ark.

LOCATION.--Lat 35°15'34", long 90°40'48", in W½ sec.4, T.7 N., R.4 E., Cross County, at bridge on U.S. Highway 64 at Riverfront, 7 miles west of Parkin.

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1935 to date in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 171.25 ft above mean sea level. Prior to Aug. 20, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 4,896 cfs (3,547,000 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 24,900 cfs May 5 (gage height, 27.95 ft); minimum, 200 cfs Nov. 15 (gage height, 4.86 ft).

Water year 1971: Maximum discharge, 19,700 cfs Mar. 4 (gage height, 25.49 ft); minimum, 959 cfs July 16 (gage height, 7.07 ft).

Period of record: Maximum discharge, 54,100 cfs Feb. 2, 1937; maximum gage height, 38.2 ft Feb. 4-6, 1937 (backwater from Mississippi River); no flow Nov. 17-26, 1941, due to backwater from Mississippi River.

REMARKS.--Part of the flow at this station is diverted from the St. Francis River at lock and dam about 4 miles northwest of Marked Tree (see sta 07047800). Some regulation by Wappapello Lake (Missouri) since Apr. 1, 1941 (capacity, 625,000 acre-ft). Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	607	279	2,010	8,340	2,090	3,650	8,910	20,000	6,190	8,920	1,250	1,210
2	589	240	1,910	8,000	2,460	3,880	8,700	23,300	5,630	7,850	1,180	1,370
3	595	240	1,840	8,480	2,510	7,320	8,430	24,200	5,230	7,550	1,110	1,700
4	588	244	1,720	9,240	2,420	9,220	8,020	24,300	5,280	6,780	1,170	2,090
5	607	250	1,650	9,960	2,340	8,660	8,230	24,900	5,550	5,980	1,180	2,740
6	604	228	1,660	10,400	3,230	7,580	8,910	24,200	5,720	5,220	1,180	2,290
7	525	221	1,840	10,200	2,530	7,520	9,660	24,100	5,610	4,550	1,210	1,770
8	537	221	1,860	9,820	2,920	7,990	10,300	23,500	5,430	4,090	1,320	1,660
9	569	219	1,790	9,360	3,160	8,400	10,200	22,800	5,220	3,700	1,710	1,890
10	639	221	1,730	8,900	3,280	8,770	9,890	21,800	4,920	3,450	2,030	2,000
11	569	228	1,670	8,100	3,350	8,840	9,300	20,400	4,530	3,160	2,040	1,990
12	471	221	1,640	7,210	3,400	9,140	8,520	18,600	4,140	2,900	1,850	1,820
13	361	214	1,590	6,120	3,440	9,230	7,730	16,500	3,750	2,680	1,820	1,670
14	281	209	1,560	5,430	3,490	9,160	6,820	15,000	3,410	2,480	1,940	1,460
15	344	202	1,550	4,870	4,670	9,030	6,530	14,200	3,230	2,370	2,270	970
16	338	205	1,500	4,540	5,760	8,890	6,230	13,900	3,480	2,420	2,240	898
17	325	225	1,500	4,360	5,440	10,400	6,060	13,900	4,540	2,330	1,750	849
18	313	354	1,470	4,310	5,470	11,200	5,710	13,900	5,530	2,060	1,570	822
19	300	554	1,480	4,150	5,400	10,500	6,580	13,700	6,800	1,920	1,510	1,040
20	287	549	1,450	3,930	5,260	10,300	7,750	13,500	7,990	1,860	1,500	3,310
21	275	362	1,520	3,710	5,130	9,870	6,510	12,700	9,070	1,820	1,580	3,980
22	274	391	1,550	3,650	4,910	9,960	5,850	11,800	9,780	1,760	1,640	4,080
23	274	602	1,570	3,790	4,800	10,300	5,870	11,100	10,200	1,670	1,690	4,430
24	274	965	1,610	3,680	4,500	10,600	6,600	10,200	10,500	1,630	1,800	4,750
25	274	1,330	1,690	3,560	4,310	10,700	10,900	9,380	10,800	1,600	1,840	4,690
26	274	1,530	1,730	3,480	3,990	11,100	16,300	8,680	10,500	1,590	1,780	4,320
27	268	1,730	1,770	3,510	3,580	10,600	15,500	7,940	10,400	1,580	1,720	3,680
28	227	2,070	2,900	3,290	3,580	10,100	13,900	7,210	10,200	1,530	1,590	3,090
29	225	2,190	8,800	2,710	-------	9,610	14,400	6,540	9,930	1,500	1,450	2,590
30	233	2,100	9,540	2,380	-------	9,070	15,300	6,560	9,560	1,440	1,340	2,360
31	278	-------	8,690	2,160	-------	8,680	-------	6,410	-------	1,340	1,260	-------
TOTAL	12,325	18,594	74,790	181,640	107,420	280,270	273,210	485,220	203,120	99,730	49,520	71,519
MEAN	398	620	2,413	5,859	3,836	9,041	9,107	15,650	6,771	3,217	1,597	2,384
MAX	639	2,190	9,540	10,400	5,760	11,200	16,300	24,900	10,800	8,920	2,270	4,750
MIN	225	202	1,450	2,160	2,090	3,650	5,710	6,410	3,230	1,340	1,110	822
AC-FT	24,450	36,880	148,300	360,300	213,100	555,900	541,900	962,400	402,900	197,800	98,220	141,900

CAL YR 1969 TOTAL 2,172,006 MEAN 5,951 MAX 35,100 MIN 202 AC-FT 4,308,000
WTR YR 1970 TOTAL 1,857,358 MEAN 5,089 MAX 24,900 MIN 202 AC-FT 3,684,000

07047900 St. Francis Bay at Riverfront, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,230	4,610	2,900	10,600	4,160	17,900	3,990	2,040	1,900	1,850	1,910	2,010
2	2,170	4,600	2,820	9,600	5,690	18,700	3,860	2,030	1,850	1,930	2,020	1,790
3	2,140	4,450	2,870	9,060	5,250	19,400	3,740	1,980	1,760	1,750	2,190	1,910
4	2,050	4,200	2,850	9,850	4,970	19,200	3,610	1,900	1,730	1,600	3,090	1,290
5	1,970	3,890	2,820	9,090	4,960	18,500	3,480	1,910	1,720	1,510	3,380	1,190
6	1,890	3,560	2,810	7,980	4,630	17,500	3,450	2,000	1,890	1,510	3,630	1,080
7	1,810	3,310	2,750	7,710	4,440	16,500	3,240	2,370	2,020	1,620	3,300	1,190
8	1,830	3,100	2,630	7,790	4,190	15,300	3,130	2,070	2,370	1,770	2,820	1,500
9	2,170	3,180	2,450	7,970	3,960	14,300	2,920	1,990	2,300	1,550	2,630	1,870
10	2,060	3,570	2,360	8,150	3,700	13,600	2,810	1,930	2,370	1,350	2,600	2,220
11	2,410	3,290	2,300	8,230	3,680	13,000	2,610	1,910	2,290	1,270	2,830	2,520
12	2,600	3,280	2,380	7,980	6,920	12,200	2,900	2,440	2,320	1,200	3,630	2,560
13	3,550	3,160	2,900	7,830	8,150	11,800	2,330	2,460	2,680	1,090	2,540	2,510
14	4,380	3,910	3,080	7,700	7,340	11,300	2,230	2,310	3,320	1,020	2,180	2,240
15	4,520	4,420	3,220	7,560	6,780	10,500	2,140	2,260	3,520	965	2,020	2,060
16	4,680	3,970	4,160	7,520	7,150	9,820	2,050	2,170	3,720	977	1,870	1,890
17	4,160	3,660	5,350	7,660	7,520	8,970	2,030	2,080	3,350	1,030	1,750	1,740
18	3,700	3,530	4,980	7,980	8,040	8,360	1,950	2,110	3,300	981	1,640	1,650
19	3,300	3,420	4,890	8,420	8,560	7,760	1,930	2,130	2,930	984	1,540	1,620
20	3,100	3,343	4,930	8,060	9,000	7,210	2,010	2,070	2,690	991	1,430	1,550
21	3,020	3,150	5,760	9,380	9,960	6,840	2,080	2,000	2,970	995	1,330	1,490
22	3,140	3,000	9,830	9,660	8,990	6,500	2,260	1,960	2,760	1,000	1,230	1,490
23	3,170	2,790	11,300	9,760	9,990	6,150	4,100	1,890	2,870	1,010	1,220	1,440
24	3,170	2,620	10,800	9,650	11,600	5,910	2,580	1,840	2,820	1,080	1,350	1,390
25	3,100	2,680	9,750	9,440	12,100	5,820	2,440	1,840	2,760	1,080	1,490	1,420
26	3,090	2,760	9,700	9,150	13,400	5,690	2,340	1,860	2,610	1,090	1,690	1,400
27	4,210	2,760	10,400	8,730	14,800	5,400	2,320	1,930	2,560	1,080	1,850	1,350
28	5,510	2,790	11,400	8,220	16,500	4,960	2,250	1,990	2,300	1,130	2,060	1,340
29	5,750	2,850	11,700	7,770	------	4,930	2,180	2,020	2,160	1,210	2,210	1,330
30	5,140	2,840	10,300	7,310	------	4,280	2,110	2,040	2,000	1,530	2,320	1,260
31	4,630	------	10,200	6,790	------	4,060	------	2,030	------	1,780	2,210	------
TOTAL	101,290	102,230	176,590	263,460	218,340	331,920	80,630	63,720	75,420	39,933	67,960	49,820
MEAN	3,267	3,408	5,696	8,499	7,798	10,710	2,688	2,055	2,514	1,288	2,192	1,661
MAX	5,750	4,610	11,700	10,600	16,500	19,400	4,100	2,440	3,720	1,930	3,630	2,560
MIN	1,810	2,620	2,300	6,750	3,680	4,060	1,930	1,840	1,720	965	1,220	1,080
AC-FT	200,900	202,800	350,300	522,600	433,100	658,400	159,900	126,400	149,600	79,210	134,800	98,820

CAL YR 1970 TOTAL 2,131,799 MEAN 5,840 MAX 24,900 MIN 822 AC-FT 4,228,000
WTR YR 1971 TOTAL 1,571,313 MEAN 4,305 MAX 19,400 MIN 965 AC-FT 3,117,000

07047902 St. Francis River at latitude of Wittsburg, Ark.

LOCATION.--Lat 35°13'00", long from 90°38'00" to 90°42'00".

DRAINAGE AREA.--6,475 sq mi (combined drainage area of St. Francis River at Parkin, and St. Francis Bay at Riverfront).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1935 to December 1949 in files of Corps of Engineers, Memphis District. January 1950 to date in reports of Mississippi River Commission.

AVERAGE DISCHARGE.--36 years, 7,491 cfs (5,427,000 acre-ft per year).

EXTREMES.--Water year 1970: Maximum daily discharge, 31,400 cfs May 2; minimum daily, 939 cfs Oct. 13.
Water year 1971: Maximum daily discharge, 23,600 cfs Mar. 4; minimum daily, 1,720 cfs Sept. 30.
Period of record: Maximum daily discharge, 78,100 cfs Feb. 2, 1937; minimum daily, 250 cfs Nov. 7, 1940.

REMARKS.--Discharge published for this station represents the total discharge of the St. Francis River at this point, and is the sum of discharge for St. Francis River at Parkin (see sta 07047800) and St. Francis Bay at Riverfront (see sta 07047900).

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,300	1,210	2,430	19,700	3,700	5,610	11,100	28,400	8,560	11,300	2,860	2,520
2	1,100	1,160	2,340	18,900	4,800	5,940	11,600	31,400	8,030	10,200	2,760	2,660
3	1,200	1,160	2,280	18,700	5,610	10,500	11,900	31,300	7,710	9,840	2,670	3,010
4	1,150	1,150	2,090	18,300	5,430	15,800	11,200	30,200	8,420	9,020	2,760	3,400
5	1,220	1,120	2,100	17,300	4,880	16,500	11,100	29,800	9,230	8,190	2,830	3,870
6	1,170	1,080	2,240	15,800	5,410	15,000	11,600	28,600	9,750	7,390	2,980	3,620
7	1,030	1,060	2,820	14,000	4,550	13,700	12,300	28,200	9,570	6,680	3,210	3,400
8	1,130	1,050	3,060	12,900	4,990	12,500	13,000	27,500	9,000	6,230	3,610	3,330
9	1,210	1,050	3,040	12,600	5,380	12,000	12,600	26,800	8,340	5,840	5,070	3,400
10	1,240	1,060	2,780	11,800	5,480	11,900	12,900	26,300	7,750	5,560	6,120	3,190
11	1,190	1,090	2,410	10,200	5,620	11,900	11,900	25,200	7,170	5,330	6,410	2,970
12	1,060	1,080	2,320	9,240	5,370	11,800	11,000	23,600	6,700	5,150	5,720	2,740
13	939	1,070	2,150	7,870	5,350	11,800	10,200	21,500	6,260	4,830	5,010	2,560
14	976	1,030	2,190	7,040	5,340	11,700	9,150	19,900	5,970	4,550	4,680	2,330
15	1,190	1,010	2,110	6,800	6,950	11,500	8,920	18,900	6,430	4,390	4,080	2,100
16	1,250	987	1,960	6,430	9,690	11,300	8,650	18,300	7,550	4,570	3,670	2,290
17	1,310	1,040	2,120	6,300	10,100	12,000	8,350	17,900	9,870	4,340	3,330	2,210
18	1,350	1,130	1,980	6,100	9,670	14,800	8,200	17,500	11,600	3,990	3,200	2,230
19	1,400	1,690	1,990	5,690	8,560	14,700	9,650	16,800	12,800	3,730	3,110	2,490
20	1,430	1,990	1,960	5,200	7,500	14,900	13,600	16,200	13,300	3,630	3,060	5,550
21	1,460	2,090	2,160	4,780	6,770	14,300	13,800	15,100	13,900	3,570	3,180	8,000
22	1,450	2,260	2,320	4,650	6,240	14,000	12,900	14,200	13,900	3,510	3,220	9,230
23	1,450	2,420	2,480	4,730	5,960	13,800	11,700	13,500	13,600	3,420	3,300	9,930
24	1,450	2,690	2,310	4,570	5,540	13,800	11,100	12,600	13,700	3,360	3,420	9,910
25	1,440	2,990	2,360	4,410	5,270	13,700	16,600	11,900	13,900	3,310	3,430	9,110
26	1,420	3,000	2,410	4,300	5,070	14,400	26,900	11,300	13,800	3,280	3,310	8,050
27	1,380	3,170	2,480	4,340	5,140	13,900	27,300	10,400	13,700	3,260	3,190	6,830
28	1,300	3,030	4,830	4,530	5,410	13,300	25,500	9,570	13,200	3,190	3,020	5,740
29	1,220	2,760	16,000	4,220	-------	12,600	25,100	8,790	12,600	3,160	2,840	4,900
30	1,210	2,560	18,300	3,950	-------	11,800	24,700	8,800	12,000	3,080	2,710	4,430
31	1,240	-------	20,000	3,770	-------	11,300	-------	8,700	-------	2,960	2,610	-------
TOTAL	38,865	50,207	121,960	277,630	169,620	392,750	414,620	609,160	307,530	160,620	111,170	135,920
MEAN	1,254	1,674	3,934	8,956	6,058	12,670	13,820	19,650	10,250	5,188	3,586	4,531
MAX	1,460	3,170	20,000	19,700	10,100	16,500	27,300	31,400	13,900	11,300	6,410	9,930
MIN	939	987	1,960	3,770	3,700	5,610	8,200	8,700	5,970	2,960	2,610	2,100
AC-FT	77,090	99,580	241,900	550,700	336,400	779,000	822,400	1.208M	610,000	319,000	220,500	269,600

CAL YR 1969 TOTAL 2,989,762 MEAN 8,191 MAX 41,000 MIN 939 AC-FT 5,930,000
WTR YR 1970 TOTAL 2,790,252 MEAN 7,645 MAX 31,400 MIN 939 AC-FT 5,534,000

07047902 St. Francis River at latitude of Wittsburg, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,140	8,100	4,730	13,100	8,230	22,000	5,970	3,740	3,380	3,460	4,490	3,450
2	3,970	7,420	4,620	12,100	7,72C	22,600	5,820	3,710	3,300	3,540	4,190	3,150
3	3,860	6,930	4,650	11,200	7,27C	23,400	5,67C	3,620	3,190	3,280	4,990	2,860
4	3,700	6,510	4,640	12,600	7,020	23,600	5,510	3,520	3,130	3,050	8,030	2,590
5	3,560	6,090	4,610	12,600	7,52C	23,000	5,320	3,510	3,160	2,910	10,400	2,410
6	3,380	5,670	4,580	11,600	7,730	22,000	5,270	3,620	3,410	3,100	11,300	2,300
7	3,350	5,360	4,510	10,700	7,57C	21,000	5,050	4,410	3,630	3,540	10,700	2,400
8	3,400	5,090	4,390	10,000	6,920	19,800	4,930	4,170	4,250	4,280	9,120	2,780
9	3,870	5,170	4,190	9,710	6,420	18,800	4,720	3,880	4,500	4,090	6,370	3,030
10	4,670	5,780	4,040	9,650	5,96C	18,000	4,600	3,770	4,800	3,520	8,230	3,220
11	4,360	5,470	3,930	9,590	5,80C	17,300	4,390	3,920	4,740	3,090	8,090	3,230
12	4,790	5,410	3,980	9,270	9,820	16,400	4,270	5,480	4,550	2,860	8,760	3,210
13	6,220	5,270	4,450	9,070	13,800	15,900	4,090	7,030	4,740	2,670	6,720	3,160
14	8,640	5,890	4,420	8,920	14,10C	15,200	3,980	7,270	5,760	2,500	5,330	2,840
15	9,910	7,580	4,370	8,750	13,30C	14,100	3,89C	6,600	6,360	2,360	4,500	2,630
16	10,200	7,420	5,520	8,68C	12,600	13,000	3,800	5,560	6,910	2,320	3,950	2,470
17	9,260	6,690	7,530	8,780	11,10C	11,700	3,780	4,740	6,580	2,400	3,620	2,290
18	7,70C	6,150	7,780	9,060	10,600	10,800	3,690	4,350	6,430	2,380	3,400	2,160
19	6,390	5,720	7,500	9,470	10,70C	9,780	3,650	4,150	6,220	2,330	3,220	2,130
20	5,850	5,540	7,110	9,880	11,00C	8,890	3,750	3,970	5,760	2,310	3,04C	2,050
21	6,150	5,400	7,830	10,400	13,200	8,330	3,820	3,820	5,310	2,300	2,890	1,970
22	6,660	5,330	13,800	10,700	15,700	7,800	4,170	3,700	5,270	2,290	2,790	1,960
23	6,490	5,050	18,800	10,800	18,100	7,330	6,870	3,530	5,180	2,330	2,790	1,910
24	6,200	4,750	19,700	11,400	19,80C	6,970	5,300	3,490	4,850	2,460	2,850	1,840
25	6,070	4,720	18,900	11,600	19,300	6,900	4,880	3,460	4,600	2,450	2,940	1,870
26	5,870	4,740	18,400	11,400	19,40C	6,830	4,490	3,440	4,360	2,500	3,140	1,860
27	7,000	4,690	18,000	10,900	19,900	6,940	4,290	3,520	4,320	2,560	3,320	1,800
28	10,200	4,690	17,40C	10,400	21,00C	6,960	4,110	3,530	4,050	2,730	3,540	1,800
29	11,300	4,730	16,100	9,900	------	6,680	3,980	3,560	3,740	2,950	3,690	1,800
30	10,400	4,720	13,500	9,420	------	6,430	3,860	3,560	3,520	4,120	3,800	1,720
31	9,050	------	12,700	8,850	------	6,140	------	3,540	------	4,580	3,670	------
TOTAL	196,610	172,080	276,680	320,500	331,580	424,580	137,920	130,170	140,000	91,260	165,870	72,890
MEAN	6,342	5,736	8,925	10,340	11,840	13,700	4,597	4,199	4,667	2,944	5,351	2,430
MAX	11,300	8,100	19,700	13,100	21,00C	23,600	6,87C	7,270	6,910	4,580	11,300	3,450
MIN	3,350	4,690	3,930	8,680	5,800	6,140	3,650	3,440	3,130	2,290	2,790	1,720
AC-FT	390,000	341,300	548,800	635,70C	657,7CC	842,200	273,60C	258,200	277,700	181,000	329,000	144,600

CAL YR 1970 TOTAL 3,224,590 MEAN 8,834 MAX 31,400 MIN 2,100 AC-FT 6,396,000
WTR YR 1971 TOTAL 2,460,140 MEAN 6,740 MAX 23,600 MIN 1,720 AC-FT 4,880,000

07047942 L'Anguille River near Colt, Ark.

LOCATION.--Lat 35°08'40", long 90°52'42", in NE¼NW¼ sec.15, T.6 N., R.2 E., St. Francis County, near center of span on downstream side of bridge on State Highway 306, 1.1 miles downstream from Lick Creek, 3.9 miles northwest of Colt, and at mile 194.9.

DRAINAGE AREA.--535 sq mi.

PERIOD OF RECORD.--October 1970 to September 1971.

GAGE.--Water-stage recorder. Datum of gage is 192.52 ft above mean sea level. Auxiliary water-stage recorder 5.8 miles upstream.

EXTREMES.--Current year: Maximum discharge, 2,520 cfs Dec. 26, 27 (gage height, 13.42 ft); minimum, 14 cfs Oct. 8 (gage height, 1.88 ft).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	887	155	1,680	131	1,160	148	533	97	68	438	253
2	157	910	123	1,510	122	1,050	157	429	97	59	430	238
3	124	883	95	1,370	112	1,010	141	324	96	64	464	220
4	85	837	69	1,680	110	1,020	122	218	99	71	474	210
5	50	793	50	1,580	245	934	106	113	104	72	525	214
6	27	752	39	1,460	216	880	94	46	112	68	588	216
7	17	713	38	1,400	225	853	82	386	111	64	1,080	209
8	16	672	39	1,270	285	787	71	499	153	55	1,150	201
9	46	648	40	1,100	311	727	58	430	538	47	1,180	191
10	53	617	39	966	304	689	42	441	347	40	1,210	178
11	61	570	38	874	279	641	31	517	218	36	1,120	166
12	146	531	39	813	609	601	21	589	146	34	1,080	155
13	253	503	32	773	1,290	617	19	970	114	39	982	144
14	384	535	33	735	1,400	647	19	786	102	46	873	140
15	394	597	72	701	1,830	668	18	698	100	62	796	133
16	435	606	214	659	1,980	694	18	651	142	69	737	137
17	480	658	235	616	1,920	681	18	594	128	72	683	119
18	499	713	267	574	1,790	639	21	524	114	69	635	91
19	498	729	394	524	1,710	593	30	437	323	59	592	72
20	489	745	473	460	1,680	538	24	347	229	49	544	59
21	460	699	590	392	1,640	469	65	260	197	41	475	53
22	415	648	837	331	2,210	396	55	166	238	39	396	51
23	351	607	1,480	268	1,970	319	1,020	79	242	42	326	51
24	295	573	2,040	219	1,940	253	1,340	101	228	75	268	54
25	239	536	2,400	178	1,880	240	1,210	181	195	118	238	54
26	174	484	2,510	156	1,750	278	1,220	95	159	154	241	53
27	309	417	2,490	154	1,570	213	1,130	48	129	338	256	41
28	558	340	2,370	163	1,350	177	940	75	114	396	264	35
29	645	264	2,160	162	------	171	753	90	95	436	266	29
30	723	202	1,970	154	------	162	629	93	80	457	267	24
31	818	------	1,830	141	------	153	------	95	------	449	263	------
TOTAL	9,386	18,669	23,161	23,063	30,859	18,260	9,602	10,815	5,047	3,688	18,841	3,791
MEAN	303	622	747	744	1,102	589	320	349	168	119	608	126
MAX	818	910	2,510	1,680	2,210	1,160	1,340	970	538	457	1,210	253
MIN	16	202	32	141	110	153	18	46	80	34	238	24
CFSM	.57	1.16	1.40	1.39	2.06	1.10	.60	.65	.31	.22	1.14	.24
IN.	.65	1.30	1.61	1.60	2.15	1.27	.67	.75	.35	.26	1.31	.26
AC-FT	18,620	37,030	45,940	45,750	61,210	36,220	19,050	21,450	10,010	7,320	37,370	7,520

WTR YR 1971 TOTAL 175,182 MEAN 480 MAX 2,510 MIN 16 CFSM .90 IN 12.18 AC-FT 347,500

07047950 L'Anguille River at Palestine, Ark.

LOCATION.--Lat 34°58'20", long 90°53'10", in NW¼ sec.10, T.4 N., R.2 E., St. Francis County, at bridge on U.S. Highway 70, 1 mile east of Palestine, and at mile 33.6.

DRAINAGE AREA.--786 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1949 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 166.68 ft above mean sea level. Prior to Nov. 1, 1949, nonrecording gage. Prior to Jan. 1, 1952, datum of gage was 0.32 ft below mean sea level.

AVERAGE DISCHARGE.--22 years, 1,145 cfs (829,600 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 8,620 cfs May 2 (gage height, 25.30 ft); no flow Nov. 11-14.

Water year 1971: Maximum discharge, 4,120 cfs Feb. 23 (gage height, 23.23 ft); minimum, 19 cfs Apr. 19 (gage height, 11.72 ft).

Period of record: Maximum discharge, 15,600 cfs May 20, 1953; maximum gage height, 30.92 ft Feb. 3, 1950, present datum (backwater from Mississippi River); no flow at times during most years.

Maximum stage since at least 1933, 39.7 ft Feb. 13, 1937, present site and datum, from records of Corps of Engineers (backwater from Mississippi River).

REMARKS.--Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	10	167	3,880	211	725	1,330	7,140	140	83	142	312
2	50	11	65	4,290	461	696	1,430	7,800	146	72	151	283
3	45	8.0	55	4,540	625	973	1,550	7,670	164	59	145	273
4	39	6.0	45	4,390	697	1,500	1,550	7,170	187	50	123	288
5	33	6.0	37	4,150	737	2,120	1,440	6,440	207	42	103	330
6	25	3.0	32	3,750	761	2,800	1,320	5,500	214	34	216	385
7	22	3.0	35	3,640	778	3,230	1,190	4,590	221	33	565	434
8	26	3.0	39	3,110	780	3,470	1,060	3,770	227	133	583	489
9	32	3.0	50	2,690	765	3,300	966	3,080	226	466	833	547
10	32	1.0	56	2,380	775	3,020	849	2,650	215	627	964	581
11	32	0	56	2,070	777	2,650	707	2,380	202	763	990	596
12	34	0	57	1,930	758	2,380	538	2,140	195	899	1,020	597
13	31	0	58	1,680	721	2,140	366	1,950	186	780	1,060	597
14	22	0	58	1,580	654	1,950	263	1,760	170	668	1,090	583
15	18	1.0	181	1,600	711	1,760	209	1,580	158	497	1,050	564
16	17	3.0	50	1,430	926	1,640	193	1,430	149	670	1,020	547
17	18	6.0	45	1,340	1,010	1,570	502	1,310	129	700	969	495
18	27	17	41	1,280	1,040	1,650	751	1,190	113	696	923	439
19	36	50	35	1,220	1,020	1,730	942	1,060	103	572	915	398
20	49	85	30	1,110	1,020	1,670	1,300	920	92	432	865	354
21	35	130	29	1,030	990	1,580	1,470	763	86	321	765	314
22	32	141	32	967	962	1,560	1,490	545	73	245	650	252
23	28	146	30	890	918	1,570	1,490	335	64	192	629	204
24	24	149	28	785	873	1,640	1,480	207	76	154	566	188
25	20	147	28	670	863	1,640	1,520	144	136	119	498	188
26	21	144	31	539	826	1,560	2,020	109	219	94	463	200
27	17	136	33	405	797	1,560	4,630	75	214	87	448	219
28	16	123	54	310	760	1,510	6,970	64	155	96	445	228
29	11	107	176	252	------	1,480	7,360	71	118	88	432	234
30	7.0	92	258	222	------	1,420	6,840	78	97	88	400	233
31	7.0	------	254	197	------	1,370	------	124	------	111	364	------
TOTAL	864.0	1,531.0	2,145	58,327	22,216	57,864	53,726	74,045	4,682	9,871	19,387	11,352
MEAN	27.9	51.0	69.2	1,882	793	1,867	1,791	2,389	156	318	625	378
MAX	58	149	258	4,540	1,040	3,470	7,360	7,800	227	899	1,090	597
MIN	7.0	0	28	197	211	696	193	64	64	33	103	188
AC-FT	1,710	3,040	4,250	115,700	44,070	114,800	106,600	146,900	9,290	19,580	38,450	22,520

CAL YR 1969 TOTAL 292,233.0 MEAN 801 MAX 12,800 MIN 0 AC-FT 579,600
WTR YR 1970 TOTAL 316,010.0 MEAN 866 MAX 7,800 MIN 0 AC-FT 626,800

07047950 L'Anguille River at Palestine, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	860	327	2,590	302	2,390	321	1,590	159	168	629	412
2	201	890	239	2,300	270	2,170	384	1,420	153	132	615	400
3	171	914	184	2,160	231	1,930	343	1,290	150	113	608	367
4	141	936	147	2,300	287	1,790	303	1,040	150	109	637	348
5	108	935	113	2,440	480	1,700	252	701	160	107	761	338
6	74	914	84	2,360	583	1,660	216	322	162	113	858	343
7	47	910	68	2,140	549	1,600	186	278	150	107	952	323
8	32	890	60	2,100	540	1,540	148	668	155	86	1,000	313
9	49	889	58	1,860	561	1,470	127	839	369	74	1,050	301
10	55	869	58	1,820	558	1,480	95	957	624	62	1,050	291
11	60	842	58	1,620	542	1,390	76	1,020	638	50	1,040	276
12	96	821	58	1,600	757	1,360	54	1,260	439	48	1,050	254
13	212	784	54	1,470	1,430	1,400	38	1,640	244	40	1,040	224
14	356	761	53	1,450	1,700	1,410	30	1,830	164	49	1,060	221
15	441	760	52	1,410	1,920	1,390	30	1,890	120	54	1,070	218
16	486	760	164	1,300	2,070	1,340	24	1,840	142	68	1,050	300
17	504	762	293	1,280	2,260	1,380	25	1,660	301	81	1,030	318
18	493	781	349	1,190	2,600	1,280	27	1,530	399	86	950	241
19	491	807	384	1,130	4,000	1,270	19	1,370	487	87	981	192
20	504	880	446	1,100	2,900	1,170	55	1,180	595	75	963	156
21	503	889	650	1,070	2,920	1,120	163	998	473	65	951	133
22	489	886	816	1,010	3,980	1,050	195	711	419	52	951	115
23	464	867	989	895	4,000	917	418	380	397	51	897	102
24	456	849	1,250	791	3,680	781	943	418	375	79	783	99
25	400	825	1,420	628	3,150	714	1,290	896	347	198	656	129
26	317	784	1,650	502	2,970	766	1,560	731	296	288	501	106
27	321	742	2,250	430	2,820	726	1,700	451	303	412	441	97
28	510	671	3,040	403	2,630	561	1,750	313	281	540	441	75
29	658	575	3,260	393	------	456	1,760	260	191	580	434	66
30	737	467	3,090	390	------	411	1,700	215	230	610	438	53
31	798	------	2,850	357	------	349	------	181	------	611	438	------
TOTAL	10,395	24,520	24,514	42,489	50,690	38,971	14,232	29,879	9,073	5,195	25,265	6,811
MEAN	335	817	791	1,371	1,810	1,257	474	964	302	168	815	227
MAX	798	936	3,260	2,590	4,000	2,390	1,760	1,890	638	611	1,070	412
MIN	32	467	52	357	231	349	19	181	120	40	434	53
AC-FT	20,620	48,640	48,620	84,280	100,500	77,300	28,230	59,270	18,000	10,300	50,110	13,510

CAL YR 1970 TOTAL 370,899 MEAN 1,016 MAX 7,800 MIN 32 AC-FT 735,700
WTR YR 1971 TOTAL 282,034 MEAN 773 MAX 4,000 MIN 19 AC-FT 559,400

07047970 Mississippi River at Helena, Ark.

LOCATION.--Lat 34°31'26", long 90°35'02", Phillips County, on right bank at railroad ferry landing at Helena, 10 miles downstream from St. Francis River, and at mile 666.3 (1962 adjustment).

DRAINAGE AREA.--941,700 sq mi, approximately.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. Gage-height records since 1871 are contained in reports of Mississippi River Commission and U.S. Weather Bureau. Intermittent records of discharge since 1879 and daily discharge since January 1928, in reports of Mississippi River Commission.

GAGE.--Nonrecording gage. Datum of gage is 141.70 ft above mean sea level, supplementary adjustment of 1958.

AVERAGE DISCHARGE.--43 years, 468,100 cfs (339,100,000 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 1,170,000 cfs May 11-12; maximum gage height, 40.79 ft May 12; minimum daily discharge, 191,000 cfs Sept. 6, 16.

Water year 1971: Maximum daily discharge, 1,230,000 cfs Mar. 8; minimum daily, 202,000 cfs Sept. 9.

Period of record: Maximum discharge, 1,968,000 cfs Feb. 12, 1937; maximum gage height, 60.21 ft Feb. 12-14, 1937; minimum discharge, 81,000 cfs Aug. 26, 1936. A discharge of 2,041,000 cfs was observed Apr. 23, 1912.

Maximum stage since at least 1828, that of Feb. 12-14, 1937.

REMARKS.--Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	295	329	304	251	597	609	977	526	464	222	224
2	224	282	311	364	301	558	612	996	512	431	226	212
3	224	269	294	454	348	527	614	1,010	505	401	231	199
4	217	262	304	536	401	510	618	1,030	502	381	242	194
5	212	257	279	596	461	485	643	1,040	500	359	253	193
6	213	268	269	646	518	475	696	1,060	509	340	265	191
7	214	265	260	688	558	487	766	1,090	541	329	283	194
8	211	271	256	719	588	505	832	1,120	580	319	304	202
9	206	278	256	735	616	533	876	1,140	614	308	326	212
10	204	276	258	711	635	564	873	1,150	643	293	321	212
11	201	271	268	710	644	594	904	1,170	668	283	317	204
12	201	264	285	664	647	621	921	1,170	664	274	316	198
13	202	254	294	611	643	644	931	1,160	646	268	313	198
14	198	258	294	551	639	657	934	1,140	620	263	305	198
15	199	241	287	491	640	660	931	1,100	587	258	289	194
16	242	238	285	432	651	651	924	1,060	568	258	264	191
17	337	242	295	376	656	635	913	997	557	263	271	197
18	437	248	285	331	666	611	875	934	560	259	265	213
19	498	250	290	306	675	587	830	877	581	244	251	232
20	538	249	305	301	689	570	773	850	601	236	234	250
21	563	249	323	297	692	559	707	843	609	234	227	270
22	562	259	334	290	691	556	670	842	605	236	235	297
23	528	286	334	288	683	576	663	840	593	239	237	332
24	481	315	322	282	673	564	694	835	584	243	239	366
25	437	338	307	277	669	565	746	824	581	242	242	388
26	404	354	297	272	665	563	821	798	576	239	248	391
27	378	357	288	270	653	565	868	756	568	237	253	393
28	357	356	268	269	629	573	904	705	554	232	255	424
29	342	349	260	266	------	587	935	650	530	219	250	481
30	325	340	269	258	------	598	955	594	497	210	241	534
31	311	------	281	231	------	602	------	553	------	214	236	------
TOTAL	9,885	8,441	8,977	13,526	16,587	17,779	24,038	29,311	17,181	8,776	8,161	7,984
MEAN	319	281	290	436	592	574	801	946	573	283	263	266
MAX	563	357	334	735	692	660	955	1,170	668	464	326	534
MIN	198	238	256	231	251	475	609	553	497	210	222	191
AC-FT	19,610	16,740	17,810	26,830	32,900	35,260	47,680	58,140	34,080	17,410	16,190	15,840

CAL YR 1969 TOTAL 186,029 MEAN 510 MAX 1,155 MIN 198.0 AC-FT 369,000
WTR YR 1970 TOTAL 170,646 MEAN 468 MAX 1,170 MIN 191.0 AC-FT 338,500

07047970 Mississippi River at Helena, Ark.--continued

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565	315	429	640	406	1,030	623	389	429	328	295	278
2	585	324	403	640	405	1,060	615	393	416	326	297	270
3	593	348	376	637	408	1,080	603	397	403	325	308	252
4	583	374	347	626	425	1,100	586	399	399	319	319	237
5	551	388	321	597	398	1,140	564	400	399	307	329	224
6	500	391	303	548	387	1,170	546	404	399	294	336	218
7	440	397	297	502	373	1,200	538	408	402	282	342	215
8	387	413	296	477	368	1,230	534	407	405	267	345	210
9	344	434	297	467	376	1,210	530	409	404	256	349	202
10	316	445	302	480	403	1,200	526	419	398	250	354	205
11	293	448	309	502	457	1,180	522	428	397	244	361	217
12	283	448	314	525	535	1,150	511	449	401	242	367	226
13	278	482	313	545	614	1,120	497	492	405	246	368	224
14	277	476	313	557	664	1,090	482	550	400	262	358	218
15	285	472	315	564	701	1,050	469	608	387	285	334	214
16	330	467	314	569	716	1,000	460	662	377	307	305	214
17	399	463	318	574	717	954	452	714	378	327	284	217
18	445	450	334	560	709	904	445	750	391	348	274	220
19	456	435	362	535	700	877	437	772	409	363	265	231
20	445	425	389	512	696	853	427	782	429	366	252	252
21	423	421	406	496	696	835	416	784	445	362	243	278
22	401	419	419	490	711	822	403	768	452	359	233	294
23	376	422	441	486	731	809	396	739	450	358	226	298
24	352	427	471	483	765	789	394	702	439	357	231	296
25	337	431	505	474	832	763	380	646	438	359	243	291
26	330	437	541	459	898	734	370	600	390	364	260	285
27	322	451	576	443	954	704	364	556	370	366	271	277
28	317	461	606	433	1,000	670	365	528	356	350	270	263
29	319	460	628	427	------	646	372	501	346	325	263	247
30	320	448	636	420	------	636	383	473	335	307	262	233
31	318	------	637	412	------	629	------	448	------	299	271	------
TOTAL	12,170	12,772	12,518	16,080	17,045	29,635	14,210	16,577	12,049	9,750	9,215	7,308
MEAN	393	426	404	519	609	956	474	548	402	315	297	244
MAX	593	482	637	640	1,000	1,230	623	784	452	366	368	298
MIN	277	315	296	412	368	629	364	389	335	242	226	202
AC-FT	24,140	25,330	24,830	31,890	33,810	58,780	28,190	33,670	23,900	19,340	18,280	14,490

CAL YR 1970 TOTAL 180,803 MEAN 495 MAX 1,170 MIN 191.0 AC-FT 358,600
WTR YR 1971 TOTAL 169,727 MEAN 465 MAX 1,230 MIN 202.0 AC-FT 336,700

07048000 West Fork White River at Greenland, Ark.

LOCATION.--Lat 35°58'50", long 94°10'25", in NW¼NW¼ sec.16, T.15 N., R.30 W., Washington County, near left bank on downstream side of highway bridge, 800 ft upstream from bridge on U.S. Highway 71, 1 mile south of Greenland, 5.5 miles upstream from small tributary, and at mile 10.5.

DRAINAGE AREA.--83 sq mi.

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,233.00 ft above mean sea level. Prior to Oct. 20, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 105 cfs (17.18 inches per year, 76,070 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,420 cfs Oct. 27 (gage height, 7.94 ft); minimum, 0.70 cfs Sept. 14; minimum gage height, 0.58 ft Sept. 14, 15.

Period of record: Maximum discharge, 34,700 cfs May 6, 1960 (gage height, 14.50 ft, in gage well; 13.60 ft, from floodmarks), from rating curve extended above 12,000 cfs on basis of contracted-opening measurement of peak flow; no flow at times in 1947-48, 1953-54, 1956, 1963, 1964, 1969, 1970.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1711: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	327	43	45	37	129	32	105	53	4.0	2.0	2.5
2	43	492	41	55	35	117	31	88	47	4.6	1.7	2.0
3	38	318	39	874	34	108	29	75	41	4.6	1.4	2.0
4	35	276	37	690	150	105	29	65	35	4.6	1.4	1.7
5	33	231	35	330	162	108	39	60	29	5.8	1.4	2.0
6	40	195	34	234	111	159	60	80	26	5.8	100	2.0
7	41	165	34	192	100	150	47	186	22	5.2	210	1.7
8	934	327	32	150	90	126	43	114	19	5.2	75	1.7
9	856	535	31	126	90	117	39	103	17	4.6	43	1.7
10	291	306	31	108	85	114	37	1,060	16	9.4	32	1.2
11	228	240	32	98	120	105	34	972	14	23	26	1.1
12	270	198	32	85	228	98	34	392	11	8.8	25	1.0
13	213	171	31	1,310	189	93	32	276	10	6.0	23	.90
14	204	432	31	888	162	85	32	201	8.8	4.5	18	.80
15	156	333	32	392	138	80	31	153	8.8	4.0	18	147
16	117	261	58	282	126	70	31	114	8.2	3.2	20	16
17	93	216	55	228	147	65	31	90	7.6	3.1	18	8.8
18	80	183	51	186	132	60	31	73	6.4	3.0	14	13
19	70	159	47	144	321	55	32	73	5.8	3.1	13	8.2
20	60	135	45	123	216	51	70	58	4.6	2.9	10	7.0
21	55	114	45	108	366	49	123	45	4.6	2.7	8.8	4.6
22	55	98	60	98	480	47	88	58	3.5	2.8	12	3.5
23	958	83	68	85	315	45	444	404	4.0	3.0	14	3.0
24	1,360	70	58	88	255	43	273	853	3.5	3.2	11	2.5
25	416	65	55	78	234	41	192	276	3.5	2.0	10	5.8
26	2,470	60	49	68	204	39	147	180	3.0	1.2	8.8	5.2
27	2,450	55	49	55	165	37	117	132	2.0	1.1	7.6	4.0
28	1,040	51	47	51	144	37	95	103	1.7	1.4	7.0	4.0
29	480	47	45	49	------	35	114	88	1.7	1.4	5.2	3.5
30	324	45	43	47	------	34	147	68	2.5	3.0	3.5	3.5
31	249	------	45	41	------	32	------	55	------	2.0	3.5	------
TOTAL	13,710	6,188	1,335	7,308	4,836	2,434	2,484	6,600	420.2	139.2	744.3	261.90
MEAN	442	206	43.1	236	173	78.5	82.8	213	14.0	4.49	24.0	8.73
MAX	2,470	535	68	1,310	480	159	444	1,060	53	23	210	147
MIN	33	45	31	41	34	32	29	45	1.7	1.1	1.4	.80
CFSM	5.33	2.48	.52	2.84	2.08	.95	1.00	2.57	.17	.05	.29	.11
IN.	6.14	2.77	.60	3.28	2.17	1.09	1.11	2.96	.19	.06	.33	.12
AC-FT	27,190	12,270	2,650	14,500	9,590	4,830	4,930	13,090	833	276	1,480	519

CAL YR 1970 TOTAL 52,365.68 MEAN 143 MAX 2,470 MIN 0 CFSM 1.72 IN 23.47 AC-FT 103,900
WTR YR 1971 TOTAL 46,460.60 MEAN 127 MAX 2,470 MIN .80 CFSM 1.53 IN 20.82 AC-FT 92,150

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-27	0030	7.94	6,420	5-10	1900	6.64	4,600
1-13	1730	6.50	4,400	5-23	2345	5.42	3,110

07048600 White River near Fayetteville, Ark.

LOCATION.--Lat 36°04'23", long 94°04'51", in NE¼SW¼ sec.8, T.16 N., R.29 W., Washington County, on left bank at downstream side of bridge on county road, 0.6 mile downstream from West Fork White River, 0.8 mile downstream from Lake Sequoyah Dam on White River, 4.3 miles east of Fayetteville, and at mile 684.0.

DRAINAGE AREA.--396 sq mi.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,138.25 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 469 cfs (16.08 inches per year, 339,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 25,700 cfs Oct. 27 (gage height, 22.20 ft); minimum, 3.0 cfs Sept. 14, 15 (gage height, 1.10 ft).

Period of record: Maximum discharge, 39,400 cfs Feb. 9, 1966 (gage height, 24.92 ft), from rating curve extended above 14,000 cfs; minimum, 1.2 cfs Sept. 29, 30, 1969.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	1,860	205	181	228	685	121	618	341	39	5.2	5.4
2	193	2,650	191	214	214	618	127	530	369	65	7.2	4.7
3	163	1,870	177	1,920	193	570	122	454	298	29	7.0	4.5
4	131	1,600	167	3,200	377	530	123	392	252	18	5.1	4.8
5	101	1,380	158	1,700	735	530	176	357	212	18	4.3	4.9
6	180	1,110	147	1,180	530	685	219	357	177	18	6.1	8.9
7	149	935	134	885	494	810	216	1,100	145	18	502	5.3
8	2,550	1,290	127	735	423	685	193	735	122	15	261	4.5
9	7,990	3,000	119	635	360	618	176	586	108	13	141	8.4
10	2,090	2,000	121	570	369	590	170	1,460	94	92	89	12
11	1,430	1,300	134	506	570	550	167	5,100	74	113	62	8.0
12	1,430	1,000	124	454	1,130	498	156	1,470	63	82	49	5.0
13	990	920	116	3,550	1,130	470	147	604	53	33	41	3.6
14	962	2,400	110	4,070	935	442	147	500	48	20	33	3.2
15	760	1,900	158	1,980	785	392	141	450	42	15	28	3.0
16	590	1,500	242	1,480	710	353	136	400	37	10	44	135
17	490	1,200	220	1,210	860	331	134	350	33	8.8	43	25
18	454	950	200	962	685	290	134	380	27	7.8	35	32
19	506	800	195	785	1,640	281	138	382	24	9.6	25	28
20	494	635	187	660	1,290	265	249	328	19	7.0	20	22
21	363	550	181	570	1,530	252	462	268	16	5.3	16	17
22	313	474	214	510	2,260	237	322	357	20	5.2	14	13
23	2,790	395	233	466	1,650	219	1,770	745	21	7.3	15	10
24	6,750	350	219	412	1,350	208	1,380	5,410	20	11	16	9.1
25	2,700	350	205	406	1,240	197	962	1,970	16	7.6	14	17
26	7,390	301	199	353	1,080	195	735	1,190	14	5.2	12	14
27	15,300	273	193	319	835	187	618	805	16	4.4	9.3	11
28	7,620	255	189	301	735	174	510	604	24	4.8	8.4	9.0
29	3,400	237	183	284	------	170	530	494	15	10	7.5	8.0
30	2,420	223	179	265	------	159	785	402	13	8.6	6.9	7.0
31	1,980	------	177	247	------	152	------	341	------	6.7	6.0	------
TOTAL	72,939	33,708	5,404	31,010	24,338	12,343	11,266	29,139	2,713	707.3	1,533.0	443.3
MEAN	2,353	1,124	174	1,000	869	398	376	940	90.4	22.8	49.5	14.8
MAX	15,300	3,000	242	4,070	2,260	810	1,770	5,410	369	113	502	135
MIN	101	223	110	181	193	152	121	268	13	4.4	4.3	3.0
CFSM	5.94	2.84	.44	2.53	2.19	1.01	.95	2.37	.23	.06	.13	.04
IN.	6.85	3.17	.51	2.91	2.29	1.16	1.06	2.74	.25	.07	.14	.04
AC-FT	144,700	66,860	10,720	61,510	48,270	24,480	22,350	57,800	5,380	1,400	3,040	879

CAL YR 1970 TOTAL 256,062.4 MEAN 702 MAX 15,300 MIN 2.0 CFSM 1.77 IN 24.05 AC-FT 507,900
WTR YR 1971 TOTAL 225,543.6 MEAN 618 MAX 15,300 MIN 3.0 CFSM 1.56 IN 21.19 AC-FT 447,400

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10- 9	0600	17.62	12,900	1-13	2100	15.11	9,420
10-24	0700	14.40	8,640	5-11	0230	15.02	9,320
10-27	0300	22.20	25,700	5-24	1030	14.25	8,480

07049690 Beaver Lake near Eureka Springs, Ark.

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, at dam on White River, 6 miles west of Eureka Springs, and at mile 609.0.

DRAINAGE AREA.--1,186 sq mi.

PERIOD OF RECORD.--December 1963 to current year. Prior to October 1969, published as Beaver Reservoir near Eureka Springs.

GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 1,684,000 acre-ft Nov. 16 (elevation, 1,121.12 ft); minimum, 1,179,000 acre-ft Sept. 30 (elevation, 1,101.22 ft).

Period of record: Maximum contents, 1,810,000 acre-ft Apr. 7, 1968 (elevation, 1,125.43 ft); minimum since bottom of power pool was first reached, 772,800 acre-ft Dec. 6-8, 1965 (elevation, 1,079.90 ft).

REMARKS.--Lake is formed by a combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began on Dec. 26, 1963, and bottom of power pool was first reached May 13, 1965. Capacity between elevations 1,120.00 and 1,130.00 ft is 299,600 acre-ft and is reserved for flood-control storage. Lake is used for flood-control, power-development, water-supply, and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates and designated flood-control pool..............................	1,130.00	1,951,500
Top of designated power pool....................	1,120.00	1,651,900
Crest of gated spillway..........................	1,093.00	1,007,200
Bottom of designated power pool.................	1,077.00	726,800
Bottom of lowest outlet..........................	938.06	1,310

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

1,101	1,174	1,115	1,515
1,105	1,266	1,119	1,624
1,110	1,386	1,122	1,709

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,395	1,647	1,648	1,524	1,486	1,424	1,370	1,403	1,518	1,460	1,373	1,256
2	1,396	1,654	1,645	1,524	1,473	1,419	1,370	1,405	1,516	1,458	1,372	1,252
3	1,395	1,656	1,640	1,528	1,463	1,411	1,370	1,407	1,514	1,458	1,372	1,246
4	1,395	1,652	1,633	1,522	1,456	1,405	1,370	1,408	1,512	1,458	1,369	1,245
5	1,395	1,652	1,630	1,534	1,446	1,403	1,370	1,409	1,511	1,458	1,366	1,245
6	1,394	1,652	1,630	1,529	1,448	1,404	1,369	1,412	1,511	1,453	1,366	1,245
7	1,392	1,655	1,623	1,524	1,449	1,407	1,371	1,415	1,510	1,448	1,366	1,243
8	1,399	1,659	1,615	1,522	1,441	1,402	1,371	1,418	1,510	1,441	1,366	1,237
9	1,432	1,667	1,612	1,524	1,428	1,398	1,370	1,420	1,508	1,436	1,366	1,235
10	1,440	1,670	1,605	1,526	1,417	1,393	1,371	1,426	1,507	1,434	1,363	1,230
11	1,447	1,672	1,599	1,525	1,406	1,392	1,372	1,443	1,506	1,434	1,360	1,229
12	1,454	1,672	1,599	1,523	1,400	1,389	1,372	1,452	1,503	1,429	1,357	1,228
13	1,457	1,672	1,596	1,533	1,403	1,391	1,372	1,456	1,503	1,423	1,353	1,225
14	1,457	1,675	1,590	1,551	1,408	1,392	1,371	1,460	1,501	1,418	1,353	1,219
15	1,459	1,681	1,581	1,554	1,403	1,390	1,370	1,463	1,499	1,412	1,352	1,215
16	1,461	1,681	1,574	1,562	1,403	1,385	1,370	1,466	1,497	1,406	1,350	1,212
17	1,462	1,678	1,567	1,567	1,403	1,383	1,370	1,467	1,492	1,406	1,344	1,212
18	1,463	1,678	1,562	1,565	1,404	1,381	1,371	1,466	1,488	1,405	1,337	1,213
19	1,465	1,678	1,560	1,562	1,406	1,376	1,372	1,464	1,488	1,402	1,329	1,213
20	1,466	1,678	1,562	1,561	1,411	1,378	1,373	1,463	1,487	1,402	1,322	1,209
21	1,466	1,680	1,557	1,559	1,419	1,378	1,374	1,460	1,485	1,397	1,321	1,209
22	1,468	1,680	1,552	1,554	1,423	1,377	1,376	1,468	1,482	1,394	1,318	1,208
23	1,478	1,674	1,545	1,555	1,423	1,376	1,381	1,477	1,481	1,394	1,311	1,208
24	1,502	1,666	1,542	1,557	1,421	1,374	1,386	1,501	1,476	1,394	1,302	1,210
25	1,514	1,659	1,542	1,549	1,421	1,370	1,390	1,511	1,470	1,393	1,294	1,210
26	1,541	1,659	1,542	1,537	1,421	1,369	1,393	1,516	1,470	1,388	1,284	1,210
27	1,602	1,656	1,542	1,525	1,422	1,369	1,395	1,515	1,470	1,385	1,276	1,204
28	1,629	1,657	1,537	1,514	1,425	1,370	1,395	1,515	1,469	1,381	1,274	1,196
29	1,636	1,656	1,531	1,503	-------	1,370	1,397	1,517	1,464	1,378	1,274	1,187
30	1,636	1,652	1,526	1,499	-------	1,370	1,400	1,518	1,461	1,374	1,270	1,179
31	1,640	-------	1,524	1,496	-------	1,370	-------	1,520	-------	1,374	1,263	-------
MAX	1,640	1,681	1,648	1,567	1,486	1,424	1,400	1,520	1,518	1,460	1,373	1,256
MIN	1,392	1,647	1,524	1,496	1,400	1,369	1,369	1,403	1,461	1,374	1,263	1,179
(†)	1,119.58	1,120.02	1,115.34	1,114.30	1,111.55	1,109.35	1,110.54	1,115.17	1,112.95	1,109.49	1,104.89	1,101.22
(‡)	+246	+12	-128	-28	-71	-55	+30	+120	-59	-87	-111	-84

CAL YR 1970........................ ‡ + 294
WTR YR 1971........................ ‡ - 215

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

07049691 White River at Beaver Dam, near Eureka Springs, Ark.

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, at Beaver Dam, 6.0 miles west of Eureka Springs, and at mile 609.0.

DRAINAGE AREA.--1,186 sq mi.

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Water-stage recorders in powerplant. Datum of gage is at mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--6 years, 1,160 cfs (840,400 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 7,510 cfs Feb. 9; minimum daily, 44 cfs May 3.
Period of record: Maximum discharge, 7,510 cfs Feb. 9, 1971; minimum daily, 35 cfs for many days in most years.

REMARKS.--Discharge computed from powerplant records and estimated leakage through wicket gates. Flow completely regulated by Beaver Lake. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	50	2,320	51	6,420	2,560	51	51	1,800	1,200	46	3,340
2	48	1,960	2,530	599	6,480	3,960	51	51	1,950	1,310	694	2,540
3	47	3,640	2,420	487	6,440	4,960	51	44	1,230	52	49	2,750
4	47	3,670	3,650	3,780	5,210	4,510	53	579	1,440	52	1,410	47
5	718	2,690	1,910	3,380	4,910	2,790	1,130	299	1,060	51	920	48
6	875	1,140	309	4,680	53	50	509	439	48	2,460	573	326
7	1,330	50	4,130	3,810	55	51	53	51	1,340	3,440	46	1,620
8	1,070	51	3,910	2,410	5,780	4,140	886	49	917	3,040	45	2,640
9	49	1,570	2,100	53	7,510	4,190	508	51	937	2,480	923	1,090
10	49	1,320	3,630	52	6,670	3,790	52	54	887	45	1,380	2,710
11	49	1,240	3,810	2,140	6,040	2,540	53	54	1,580	45	1,620	49
12	47	2,180	52	1,950	5,190	2,850	360	54	725	3,130	1,450	48
13	500	1,680	51	2,110	433	53	492	46	48	3,030	1,720	1,730
14	1,440	50	4,660	2,400	53	51	656	50	875	2,700	48	2,870
15	529	50	4,760	3,620	4,230	2,120	579	51	1,270	2,310	48	1,680
16	50	4,160	4,500	51	2,500	2,670	576	47	1,100	3,100	1,290	946
17	49	3,240	4,400	52	1,650	2,000	47	297	2,380	49	3,460	48
18	49	1,690	3,840	2,460	2,260	1,910	47	1,760	2,530	47	3,550	50
19	630	2,400	50	3,650	2,260	1,890	360	1,760	50	1,190	3,470	51
20	52	1,170	52	2,900	55	51	372	1,780	49	54	3,470	1,850
21	50	50	4,220	2,740	56	50	372	1,800	943	1,820	315	50
22	49	50	2,960	3,070	3,950	587	371	52	1,100	1,320	1,250	49
23	212	4,460	3,130	652	4,000	1,140	64	52	1,220	451	3,950	49
24	50	5,140	2,100	54	4,200	1,450	50	48	2,440	53	4,360	49
25	50	4,900	49	5,220	3,170	2,330	51	46	2,770	51	4,040	49
26	48	50	49	6,570	3,240	1,270	316	1,270	47	2,530	3,830	49
27	995	2,210	48	6,640	54	50	261	1,890	47	1,400	3,540	3,420
28	3,190	52	3,580	6,450	55	47	412	1,240	1,750	1,730	226	3,950
29	4,220	1,470	3,510	6,010	------	582	361	47	2,360	1,710	48	4,230
30	3,800	3,110	3,610	4,920	------	581	53	48	2,320	1,710	1,660	3,810
31	50	------	1,420	1,740	------	578	------	217	------	46	3,610	------
TOTAL	20,299	55,493	77,760	81,701	92,964	55,791	9,193	14,277	37,213	42,606	53,001	42,138
MEAN	655	1,850	2,508	2,636	3,320	1,800	306	461	1,240	1,374	1,710	1,405
MAX	4,220	5,140	4,760	6,640	7,510	4,960	1,130	1,890	2,770	3,440	4,360	4,230
MIN	47	50	48	51	53	47	47	44	47	45	45	47
AC-FT	40,260	110,100	154,200	162,100	184,400	110,700	18,230	28,320	73,810	84,510	105,100	83,580

CAL YR 1970 TOTAL 425,653 MEAN 1,166 MAX 5,620 MIN 44 AC-FT 844,300
WTR YR 1971 TOTAL 582,436 MEAN 1,596 MAX 7,510 MIN 44 AC-FT 1,155,000

07050500 Kings River near Berryville, Ark.

LOCATION.--Lat 36°25'36", long 93°37'15", in SE¼NE¼ sec.3, T.20 N., R.25 W., Carroll County, on right bank at downstream side of bridge on State Highway 143, 1.5 miles downstream from Bee Creek, 2.5 miles upstream from Clabber Creek, 5.3 miles northwest of Berryville, and at mile 35.1.

DRAINAGE AREA.--532 sq mi.

PERIOD OF RECORD.--April 1939 to current year. Monthly discharge only for April 1939, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 963.10 ft above mean sea level. Apr. 4 to July 11, 1939, nonrecording gage and July 12, 1939, to Sept. 30, 1951, water-stage recorder, at site 5 miles upstream at datum 27.71 ft higher. Oct. 1, 1951, to Oct. 22, 1952, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--32 years, 563 cfs (14.37 inches per year, 407,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 10,700 cfs Oct. 27 (gage height, 16.77 ft); minimum, 4.4 cfs Sept. 17; minimum gage height, 1.56 ft Sept. 1, 2, 17.

Period of record: Maximum discharge, 59,000 cfs May 10, 1943 (gage height, 30.20 ft, site and datum then in use, or about 37.0 ft, present site and datum); minimum, 0.10 cfs Aug. 27, 28, 1954.

Flood of Apr. 14, 1927, reached a stage of about 38.0 ft, present site and datum, from information by local residents (discharge, 62,000 cfs).

REMARKS.--Records good.

REVISIONS.--WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	321	1,320	290	221	289	826	189	608	405	286	27	5.4
2	277	1,610	265	218	270	744	182	596	357	330	26	5.6
3	242	1,610	245	400	254	674	175	539	377	231	27	8.0
4	211	1,440	230	1,380	264	606	170	511	319	180	25	8.5
5	185	1,250	215	1,490	348	559	185	448	289	147	24	9.4
6	299	1,080	205	1,100	530	583	202	412	256	124	26	9.5
7	288	940	190	855	515	651	206	911	228	107	29	8.5
8	771	855	175	705	455	740	220	1,060	211	91	29	7.9
9	2,550	1,540	165	625	400	681	223	856	195	77	29	22
10	1,270	1,690	165	565	356	646	216	782	179	76	28	19
11	800	1,260	180	515	385	606	206	1,020	165	69	25	14
12	732	1,060	165	470	625	564	196	1,600	151	60	24	11
13	611	910	155	1,300	1,240	528	192	1,120	138	56	22	8.7
14	696	1,000	150	5,240	1,190	501	188	875	126	50	20	6.8
15	734	2,030	200	3,120	1,010	464	182	700	117	45	26	5.1
16	626	1,780	320	2,010	875	421	178	575	109	42	25	4.7
17	516	1,390	300	1,500	865	378	174	477	100	39	19	6.1
18	436	1,160	275	1,240	1,110	344	172	393	91	36	18	10
19	377	985	260	1,030	1,120	320	170	344	83	34	17	13
20	333	875	255	855	1,170	306	175	302	74	32	16	16
21	297	775	275	745	1,210	291	187	270	68	30	14	21
22	268	675	300	675	2,120	278	187	772	62	29	13	23
23	908	585	296	610	2,170	267	272	1,320	64	28	12	24
24	2,530	470	289	550	1,580	253	610	5,580	68	27	13	23
25	2,160	450	280	500	1,380	244	780	3,980	65	26	13	28
26	2,380	420	264	455	1,250	235	656	1,840	65	27	11	25
27	9,410	385	251	405	1,090	227	561	1,190	60	27	11	23
28	7,410	350	242	360	935	220	481	898	54	26	9.9	20
29	4,240	330	233	336	------	214	419	712	57	28	9.7	18
30	2,450	310	227	317	------	205	455	580	80	29	8.3	16
31	1,660	------	227	306	------	197	------	478	------	26	6.3	------
TOTAL	45,588	30,535	7,289	30,098	25,006	13,773	8,409	31,749	4,613	2,415	603.2	420.2
MEAN	1,471	1,018	235	971	893	444	280	1,024	154	77.9	19.5	14.0
MAX	9,410	2,030	320	5,240	2,170	826	780	5,580	405	330	29	28
MIN	185	310	150	218	254	197	170	270	54	26	6.3	4.7
CFSM	2.77	1.91	.44	1.83	1.68	.83	.53	1.92	.29	.15	.04	.03
IN.	3.19	2.14	.51	2.10	1.75	.96	.59	2.22	.32	.17	.04	.03
AC-FT	90,420	60,570	14,460	59,700	49,600	27,320	16,680	62,970	9,150	4,790	1,200	833

CAL YR 1970 TOTAL 257,451.5 MEAN 705 MAX 9,410 MIN 7.1 CFSM 1.33 IN 18.00 AC-FT 510,700
WTR YR 1971 TOTAL 200,498.4 MEAN 549 MAX 9,410 MIN 4.7 CFSM 1.03 IN 14.02 AC-FT 397,700

PEAK DISCHARGE (BASE, 8,000 CFS).--OCT. 27 (1545) 10,700 CFS (16.77 FT).

07053400 Table Rock Reservoir near Branson, Mo.

LOCATION.--Lat 36°35'46", long 93°18'35", in NW¼ sec.22, T.22 N., R.22 W., Taney County, at dam on White River, 3 miles upstream from Fall Creek, 6.1 miles southwest of Branson.

DRAINAGE AREA.--4,020 sq mi.

PERIOD OF RECORD.--September 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to July 18, 1958, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 2,804,000 acre-ft Oct. 30 (elevation, 917.33 ft); minimum, 2,348,000 acre-ft Sept. 28 (elevation, 906.34 ft).

Period of record: Maximum contents, 3,541,800 acre-ft May 10, 1961 (elevation, 932.52 ft); minimum, since initial filling to bottom of power pool level, 1,535,500 acre-ft Feb. 8, 1965 (elevation, 881.54 ft).

REMARKS.--Reservoir is formed by a combination concrete-gravity and embankment-type dam. Storage began on Sept. 9, 1956. Storage for purpose of filling to power-pool level began Nov. 24, 1958, and bottom of power pool,1,520,500 acre-ft (elevation, 881 ft) was first reached Dec. 19, 1959. Capacity at top of spillway gates 3,567,500 acre-ft (elevation, 933 ft). Capacity top of flood control pool 3,462,000 acre-ft (elevation, 931 ft), of which 760,000 acre-ft (between elevations 915 and 931 ft) is reserved for flood control, 1,181,500 acre-ft (between elevations 881 and 915 ft) is used for power. Capacity at spillway crest (elevation, 896 ft) is 1,976,000 acre-ft. Capacity at lowest outlet (elevation, 721.96 ft) is 3,530 acre-ft. Reservoir is used for flood-control, power, and recreational purposes. Figures represent total contents. Contents computed from daily readings at 2400 hours to five significant figures prior to Oct. 1, 1963.

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-feet)

903	2,222,000	910	2,493,000	918	2,833,000
906	2,335,000	914	2,659,000		

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.667	2.788	2.648	2.597	2.558	2.588	2.486	2.476	2.517	2.477	2.465	2.426
2	2.659	2.781	2.648	2.584	2.562	2.591	2.484	2.479	2.519	2.477	2.461	2.422
3	2.653	2.777	2.647	2.578	2.568	2.591	2.485	2.481	2.517	2.477	2.459	2.417
4	2.647	2.770	2.647	2.583	2.580	2.592	2.488	2.481	2.513	2.477	2.462	2.414
5	2.641	2.761	2.651	2.590	2.582	2.588	2.488	2.481	2.504	2.478	2.463	2.413
6	2.645	2.748	2.649	2.597	2.583	2.585	2.490	2.482	2.503	2.478	2.464	2.408
7	2.645	2.739	2.649	2.603	2.585	2.591	2.491	2.487	2.502	2.473	2.464	2.399
8	2.660	2.746	2.650	2.604	2.588	2.592	2.493	2.489	2.503	2.468	2.463	2.388
9	2.669	2.755	2.649	2.598	2.595	2.594	2.494	2.493	2.504	2.471	2.453	2.385
10	2.674	2.762	2.655	2.592	2.596	2.594	2.497	2.496	2.504	2.469	2.445	2.378
11	2.682	2.764	2.656	2.592	2.598	2.590	2.499	2.498	2.502	2.469	2.445	2.371
12	2.682	2.764	2.651	2.592	2.598	2.587	2.497	2.499	2.493	2.469	2.446	2.368
13	2.686	2.764	2.646	2.612	2.590	2.580	2.496	2.497	2.491	2.466	2.440	2.366
14	2.688	2.761	2.649	2.629	2.583	2.578	2.493	2.491	2.490	2.469	2.440	2.364
15	2.682	2.758	2.654	2.639	2.582	2.570	2.489	2.492	2.487	2.468	2.440	2.365
16	2.675	2.758	2.658	2.638	2.579	2.566	2.487	2.489	2.483	2.471	2.439	2.365
17	2.672	2.756	2.662	2.634	2.573	2.557	2.489	2.476	2.480	2.465	2.441	2.365
18	2.669	2.754	2.665	2.632	2.568	2.552	2.491	2.471	2.476	2.464	2.441	2.365
19	2.663	2.747	2.662	2.631	2.566	2.539	2.486	2.469	2.475	2.466	2.440	2.365
20	2.656	2.733	2.654	2.629	2.557	2.527	2.481	2.468	2.475	2.464	2.438	2.367
21	2.648	2.725	2.656	2.624	2.556	2.517	2.475	2.465	2.476	2.464	2.432	2.367
22	2.639	2.718	2.654	2.618	2.566	2.513	2.470	2.470	2.479	2.464	2.429	2.366
23	2.638	2.709	2.651	2.608	2.575	2.509	2.469	2.485	2.475	2.463	2.425	2.365
24	2.644	2.704	2.647	2.596	2.583	2.504	2.470	2.496	2.471	2.463	2.424	2.365
25	2.652	2.701	2.639	2.594	2.588	2.502	2.473	2.506	2.468	2.460	2.421	2.365
26	2.694	2.688	2.630	2.592	2.595	2.497	2.469	2.511	2.467	2.463	2.423	2.364
27	2.751	2.681	2.620	2.588	2.591	2.493	2.468	2.511	2.465	2.460	2.430	2.358
28	2.785	2.668	2.620	2.585	2.588	2.492	2.470	2.511	2.467	2.461	2.430	2.351
29	2.798	2.658	2.616	2.582	------	2.488	2.473	2.512	2.469	2.465	2.429	2.356
30	2.804	2.654	2.615	2.570	------	2.488	2.473	2.515	2.476	2.467	2.428	2.355
31	2.795	------	2.608	2.562	------	2.487	------	2.517	------	2.466	2.430	------
MAX	2.804	2.788	2.665	2.639	2.598	2.594	2.499	2.517	2.519	2.478	2.465	2.426
MIN	2.638	2.654	2.608	2.562	2.556	2.487	2.468	2.465	2.465	2.460	2.421	2.351
(†)	917.13	913.89	912.78	911.67	912.31	909.84	909.50	910.58	909.58	909.32	908.42	906.51
(*)	+123	-141	-46	-46	+26	-101	-14	+44	-41	-10	-36	-75

CAL YR 1970........................ * +346
WTR YR 1971........................ * -317

† ELEVATION, IN FEET, AT END OF MONTH.
* CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.

07053500 White River near Branson, Mo.

LOCATION.--Lat 36°35'51", long 93°17'42", in SE¼NE¼ sec.22, T.22 N., R.22 W., Taney County, on left bank 0.9 mile downstream from Table Rock Dam, 2.1 miles upstream from Fall Creek, 5 miles southwest of Branson, 7.4 miles upstream from Missouri Pacific bridge, and at mile 527.8.

DRAINAGE AREA.--4,022 sq mi.

PERIOD OF RECORD.--July 1909 to December 1910 (gage heights and discharge measurements only), October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 696.00 ft above mean sea level (levels by Corps of Engineers). July 19, 1909 to Dec. 31, 1910, nonrecording gage at site 7.4 miles downstream at different datum. Oct. 1, 1951 to Mar. 6, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 3,278 cfs (2,373,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 13,800 cfs Oct. 29; maximum gage height, 15.06 ft Oct. 28; minimum daily discharge, 38 cfs June 26.

Period of record: Maximum discharge, 89,100 cfs May 16, 1956 (gage height, 36.9 ft); prior to building dam, 24 cfs Sept. 20, 1954; no outflow from reservoir at various times.

Maximum stage known, 52.8 ft, from floodmark, Apr. 16, 1945 (discharge, 203,000 cfs).

REMARKS.--Records good. Discharge computations based on power releases, conduit releases, fish hatchery releases, and pool elevation at Table Rock Reservoir. Fish hatchery releases began on Feb. 18, 1959. Regulated by Table Rock Reservoir, some regulation since Sept. 9, 1956.

COOPERATION.--Computations of daily discharge furnished by Corps of Engineers and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,730	11,500	7,070	6,910	7,860	6,270	2,360	45	3,650	974	43	5,080
2	4,910	11,500	4,580	8,580	5,840	6,200	1,170	44	2,580	1,480	3,410	4,890
3	4,030	12,200	4,050	8,630	4,190	7,390	47	1,420	3,270	322	592	4,490
4	4,110	13,500	4,290	7,410	3,040	7,090	48	734	4,260	222	46	1,800
5	4,250	12,600	2,730	5,570	2,670	6,950	2,820	1,920	6,580	44	135	873
6	1,850	12,600	2,610	6,730	1,370	6,180	866	1,920	1,240	3,040	46	3,560
7	2,350	7,290	4,860	5,310	1,720	49	697	1,030	3,010	4,870	455	6,840
8	2,210	2,520	4,470	5,190	6,710	6,890	1,480	174	1,740	7,720	303	7,680
9	3,570	3,800	3,530	6,050	5,380	6,940	455	43	1,240	1,210	6,350	3,430
10	2,310	5,440	3,820	5,610	7,940	6,850	414	2,390	1,350	661	4,790	6,130
11	816	6,480	3,660	5,230	7,950	7,260	45	2,490	3,440	43	1,630	2,850
12	3,120	6,550	3,650	4,910	7,930	7,390	3,070	2,550	5,050	3,520	1,280	1,550
13	3,260	6,410	3,310	2,030	7,550	6,260	2,850	2,870	1,340	4,650	4,780	2,010
14	5,440	6,970	4,110	5,080	6,790	4,910	2,440	4,280	2,130	1,420	40	4,080
15	7,190	6,960	5,330	6,800	7,400	7,380	3,200	1,380	2,080	2,770	44	701
16	7,240	9,400	4,920	6,560	7,330	7,300	2,630	2,420	3,950	1,670	1,520	1,280
17	4,470	9,480	4,670	6,690	7,330	7,350	423	7,380	3,610	2,740	2,260	1,210
18	4,070	7,340	4,910	7,010	7,520	8,010	43	6,590	5,290	41	3,510	46
19	5,730	11,000	4,950	6,850	7,190	8,030	3,940	2,930	910	634	3,770	46
20	5,280	11,100	4,920	6,840	6,790	7,570	5,000	3,210	43	703	4,680	47
21	5,750	7,510	5,550	8,240	6,860	6,030	4,100	4,170	952	1,390	2,500	49
22	5,710	7,490	6,370	8,280	7,740	4,410	3,830	1,250	1,670	1,190	2,830	348
23	7,230	11,000	6,050	8,280	7,590	4,100	4,460	444	1,890	1,020	5,990	427
24	3,840	9,390	6,050	8,220	7,080	4,730	2,220	4,390	5,150	46	4,480	1,530
25	1,010	8,580	5,990	8,310	7,140	4,910	1,920	3,260	4,420	1,010	5,320	44
26	5,130	8,480	6,030	9,680	6,560	4,960	3,970	3,990	38	1,530	2,800	885
27	9,100	8,070	6,010	9,930	6,040	2,770	3,990	4,000	711	1,770	41	6,420
28	12,800	8,420	5,540	10,000	4,940	2,550	1,330	4,030	1,620	1,730	43	7,480
29	13,800	8,390	6,570	9,610	-------	2,410	1,120	722	1,970	1,680	113	1,650
30	11,600	6,970	6,540	8,450	-------	2,350	2,110	44	811	164	1,870	4,850
31	11,600	-------	6,540	7,960	-------	1,460	-------	1,020	-------	263	2,240	-------
TOTAL	168,556	258,940	153,680	220,950	174,450	172,949	63,128	73,140	76,795	50,527	67,991	82,276
MEAN	5,437	8,631	4,957	7,127	6,230	5,579	2,104	2,359	2,560	1,630	2,193	2,743
MAX	13,800	13,500	7,070	10,000	7,950	8,030	5,080	7,380	6,580	7,720	6,350	7,680
MIN	816	2,520	2,610	2,030	1,370	49	43	43	38	41	40	44
AC-FT	334,300	513,600	304,800	438,300	346,000	343,000	125,200	145,100	152,300	100,200	134,900	163,200

CAL YR 1970 TOTAL 1,352,180 MEAN 3,705 MAX 15,200 MIN 42 AC-FT 2,682,000
WTR YR 1971 TOTAL 1,563,382 MEAN 4,283 MAX 13,800 MIN 38 AC-FT 3,101,000

07054500 Bull Shoals Lake near Flippin, Ark.

LOCATION.--Lat 36°21'56", long 92°34'29", in NW¼ sec.21, T.20 N., R.15 W., Marion County, at dam on White River, 6.3 miles northeast of Flippin, 12.5 miles downstream from Little North Fork, and at mile 418.6.

DRAINAGE AREA.--6,036 sq mi.

PERIOD OF RECORD.--January 1951 to current year. Prior to October 1969, published as Bull Shoals Reservoir near Flippin.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to July 20, 1951, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 3,394,000 acre-ft Nov. 30 (elevation, 661.31 ft); minimum, 2,636,000 acre-ft Sept. 30 (elevation, 644.45 ft).

Period of record: Maximum contents, 5,366,000 acre-ft June 21, 1957 (elevation, 694.41 ft); minimum since bottom of power pool was first reached, 953,000 acre-ft Sept. 30, 1954 (elevation, 587.43 ft).

REMARKS.--Lake is formed by a concrete-gravity dam. Storage for purpose of filling to power-pool level began July 23, 1951, and bottom of power pool was first reached Mar. 13, 1952. Capacity between elevations 654.0 and 695.0 ft is 2,360,000 acre-ft and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Contents computed from daily readings at 2400 hours to five significant figures prior to Oct. 1, 1963. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates................	695.0	5,408,000
Crest of gated spillway.............	667.0	3,682,500
Top of designated power pool........	654.0	3,048,000
Bottom of designated power pool.....	628.5	2,045,000
Bottom of lowest outlet..............	477.1	8,410

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

644	2,618	650	2,870	659	3,281
647	2,742	655	3,094	662	3,428

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,030	3,264	3,384	2,882	2,854	2,969	2,897	2,940	2,955	2,862	2,839	2,760
2	3,021	3,278	3,374	2,884	2,854	2,954	2,894	2,942	2,955	2,862	2,837	2,762
3	3,018	3,287	3,361	2,906	2,859	2,941	2,894	2,940	2,948	2,862	2,840	2,764
4	3,011	3,294	3,342	2,920	2,867	2,929	2,896	2,937	2,939	2,862	2,840	2,759
5	3,006	3,298	3,324	2,927	2,868	2,918	2,897	2,938	2,924	2,861	2,840	2,758
6	3,008	3,294	3,302	2,927	2,871	2,926	2,896	2,945	2,928	2,858	2,839	2,752
7	3,006	3,287	3,277	2,930	2,877	2,938	2,895	2,947	2,921	2,854	2,841	2,741
8	3,011	3,283	3,251	2,935	2,879	2,919	2,896	2,947	2,917	2,849	2,840	2,729
9	3,015	3,287	3,220	2,941	2,881	2,912	2,898	2,948	2,910	2,855	2,830	2,725
10	3,019	3,286	3,189	2,948	2,884	2,898	2,897	2,958	2,915	2,855	2,831	2,713
11	3,022	3,285	3,160	2,957	2,889	2,889	2,898	2,972	2,911	2,832	2,833	2,720
12	3,022	3,286	3,126	2,958	2,900	2,881	2,897	2,976	2,918	2,842	2,829	2,720
13	3,036	3,287	3,093	2,996	2,907	2,892	2,901	2,979	2,924	2,840	2,818	2,721
14	3,035	3,296	3,068	3,016	2,913	2,907	2,901	2,978	2,919	2,841	2,820	2,716
15	3,030	3,304	3,050	3,010	2,915	2,900	2,900	2,980	2,913	2,836	2,817	2,721
16	3,023	3,309	3,033	3,005	2,919	2,896	2,903	2,979	2,907	2,834	2,814	2,722
17	3,021	3,325	3,013	2,999	2,925	2,891	2,900	2,969	2,906	2,832	2,816	2,723
18	3,022	3,335	2,992	2,994	2,931	2,896	2,904	2,972	2,896	2,829	2,807	2,722
19	3,008	3,348	2,981	2,982	2,937	2,887	2,903	2,979	2,897	2,833	2,801	2,724
20	2,994	3,359	2,969	2,970	2,940	2,898	2,901	2,983	2,898	2,831	2,793	2,722
21	2,981	3,366	2,959	2,956	2,950	2,911	2,904	2,980	2,894	2,830	2,787	2,719
22	2,967	3,375	2,949	2,937	2,965	2,909	2,910	2,983	2,891	2,831	2,786	2,718
23	2,962	3,375	2,940	2,921	2,973	2,903	2,915	2,996	2,889	2,833	2,779	2,717
24	2,972	3,375	2,928	2,904	2,976	2,895	2,922	3,004	2,874	2,832	2,774	2,718
25	2,982	3,378	2,918	2,893	2,981	2,888	2,927	3,000	2,874	2,830	2,771	2,718
26	3,016	3,384	2,908	2,875	2,971	2,882	2,929	2,990	2,872	2,831	2,772	2,716
27	3,113	3,388	2,897	2,861	2,979	2,888	2,933	2,984	2,870	2,833	2,771	2,699
28	3,165	3,388	2,891	2,850	2,980	2,888	2,935	2,976	2,866	2,836	2,769	2,678
29	3,199	3,390	2,885	2,843	------	2,894	2,940	2,972	2,862	2,840	2,768	2,660
30	3,223	3,387	2,895	2,844	------	2,894	2,940	2,966	2,864	2,840	2,765	2,637
31	3,243	------	2,882	2,850	------	2,894	------	2,958	------	2,840	2,763	------
MAX	3,243	3,390	3,384	3,016	2,981	2,969	2,940	3,004	2,955	2,862	2,841	2,764
MIN	2,962	3,264	2,882	2,843	2,854	2,881	2,894	2,937	2,862	2,829	2,763	2,637
(†)	658.20	661.18	650.27	649.54	652.50	650.55	651.59	652.00	649.85	649.29	647.50	644.47
(‡)	+209	+144	-505	-32	+130	-86	+46	+18	-94	-24	-77	-126

CAL YR 1970.......................... ‡ +174

WTR YR 1971.......................... ‡ -397

† Elevation, in feet, at end of month.

‡ Change in contents, in thousands of acre-feet.

07055000 White River near Flippin, Ark.

LOCATION.--Lat 36°18'50", long 92°33'20", in NE¼ sec.10, T.19 N., R.15 W., Marion County, on right bank, 1.3 miles upstream from Hightower Creek, 3 miles northeast of Flippin, 11.5 miles downstream from Bull Shoals Dam, 11.8 miles upstream from Crooked Creek, and at mile 406.7.

DRAINAGE AREA.--6,067 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 419.66 ft above mean sea level (Corps of Engineers bench mark). Prior to Dec. 21, 1938, nonrecording gage at site 1.1 miles upstream at datum 1.52 ft higher.

AVERAGE DISCHARGE.--43 years, 5,898 cfs (4,273,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 31,300 cfs Sept. 27 (gage height, 13.61 ft); minimum daily, 290 cfs Apr. 4.

Period of record: Maximum discharge, 215,000 cfs Apr. 17, 1945 (gage height, 39.82 ft); minimum daily, 90 cfs Aug. 3, 1949, caused by temporary storage behind Bull Shoals Dam upstream.

Flood of Apr. 16, 1927 reached a stage of 45.4 ft, original site and datum, or about 41 ft, present site and datum (discharge, 240,000 cfs, from data by Corps of Engineers).

REMARKS.--Records good. Flow completely regulated by Bull Shoals Lake since July 24, 1951 (see sta 07054500). Prior to this date some regulation at low flow by Lake Taneycomo (Missouri) 100 miles upstream (capacity, 23,700 acre-ft). Some regulation by Table Rock Lake (Missouri) since Sept. 9, 1956 (see sta 07053400), and by Beaver Lake since Dec. 26, 1963 (see sta 07049690).

REVISIONS.--WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,880	5,640	9,690	8,800	7,010	13,700	2,320	1,060	6,610	1,340	548	4,340
2	11,500	9,950	12,400	7,120	7,310	16,700	2,590	880	6,420	1,090	2,590	5,060
3	7,500	11,200	13,200	6,060	4,920	15,000	1,060	2,320	4,890	573	1,190	5,100
4	7,050	12,900	14,900	12,200	3,190	14,400	290	3,320	10,600	556	680	4,100
5	8,150	13,500	16,700	9,660	3,480	14,100	2,080	2,150	12,100	494	528	3,100
6	4,010	15,000	16,200	9,300	1,600	7,030	3,930	2,260	5,310	3,420	611	5,460
7	3,460	14,700	19,000	8,050	560	1,760	1,630	2,020	6,810	4,850	655	11,900
8	3,090	15,000	18,200	5,940	4,460	11,600	1,060	1,490	4,440	10,100	645	13,900
9	5,960	12,700	21,000	4,040	5,240	14,400	648	529	1,710	3,180	7,390	8,850
10	4,620	10,700	21,800	4,540	6,240	14,400	1,160	3,440	3,350	1,560	6,700	11,300
11	1,560	9,790	21,800	3,790	7,200	13,800	1,060	2,540	4,630	1,530	4,150	3,250
12	3,990	10,200	22,000	6,570	7,620	13,500	3,020	2,980	2,700	6,190	2,360	871
13	4,460	9,610	22,200	4,390	7,310	4,420	3,260	2,940	2,290	7,370	8,120	1,740
14	7,550	6,610	18,900	4,520	7,120	1,630	2,560	4,720	4,070	2,790	2,480	4,030
15	11,500	5,400	18,200	14,900	7,860	8,910	3,300	2,630	5,800	4,340	1,540	1,620
16	13,300	5,700	18,000	13,600	8,620	10,600	3,230	2,870	5,920	2,960	3,020	883
17	9,060	3,840	18,100	13,900	7,960	10,600	2,000	11,400	5,660	3,970	1,560	637
18	6,460	4,980	18,400	13,700	7,690	10,800	495	7,070	9,340	1,460	6,230	507
19	13,200	6,870	14,300	15,100	7,760	11,000	3,090	3,840	4,190	750	8,110	486
20	13,900	6,500	12,800	14,300	7,640	2,920	6,460	3,470	758	1,120	7,830	550
21	13,600	5,640	13,300	18,600	7,430	864	4,200	4,320	1,540	1,990	3,140	1,220
22	14,200	6,420	13,200	19,800	9,970	7,500	3,680	2,720	2,900	1,340	3,170	1,180
23	13,000	9,660	12,300	18,400	9,220	9,110	4,010	2,200	3,040	937	12,500	1,380
24	6,240	11,100	12,800	20,000	11,400	9,170	2,350	7,260	9,340	729	8,960	916
25	1,430	8,310	12,300	18,000	8,620	9,740	2,000	9,360	7,240	1,950	8,290	516
26	5,440	7,910	12,800	18,700	15,200	8,050	4,030	10,600	3,020	1,390	4,300	910
27	5,100	7,290	12,800	18,600	6,920	3,550	4,560	9,170	2,030	627	1,160	14,100
28	3,480	8,910	11,400	18,000	6,280	2,280	3,040	9,470	3,280	920	643	16,100
29	4,700	9,220	9,740	15,200	-------	2,260	1,760	5,400	4,390	566	637	16,000
30	4,270	10,600	8,880	9,890	-------	2,010	1,510	3,190	2,410	838	2,210	15,200
31	5,220	-------	9,190	7,010	-------	1,640	-------	5,630	-------	573	3,150	-------
TOTAL	225,880	275,850	476,500	362,680	195,830	267,444	76,303	133,249	146,788	71,503	115,097	155,206
MEAN	7,286	9,195	15,370	11,700	6,994	8,627	2,546	4,298	4,893	2,307	3,713	5,174
MAX	14,200	15,000	22,200	20,000	15,200	16,700	6,460	11,400	12,100	10,100	12,500	16,100
MIN	1,430	3,840	8,880	3,790	560	864	290	529	758	494	528	486
AC-FT	448,000	547,100	945,100	719,400	388,400	530,500	151,500	264,300	291,200	141,800	228,300	307,900

CAL YR 1970 TOTAL 2,191,805 MEAN 6,005 MAX 22,200 MIN 298 AC-FT 4,347,000
WTR YR 1971 TOTAL 2,502,410 MEAN 6,856 MAX 22,200 MIN 290 AC-FT 4,964,000

07056000 Buffalo River near St. Joe, Ark.

LOCATION.--Lat 35°59'02", long 92°44'44", in SW¼SW¼ sec.36, T.16 N., R.17 W., Searcy County, near right bank on downstream side of bridge on U.S. Highway 65, 1.6 miles downstream from Mill Creek, 5.4 miles upstream from Bear Creek, 4.5 miles southeast of St. Joe, and at mile 58.3.

DRAINAGE AREA.--825 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 560.35 ft above mean sea level. Prior to Mar. 1, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 1,017 cfs (16.74 inches per year, 736,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge 14,700 cfs Oct. 27 (gage height, 16.11 ft); minimum, 22 cfs Sept. 17-18 (gage height, 2.90 ft).

Period of record: Maximum discharge, 100,000 cfs Apr. 15, 1945 (gage height, 41.00 ft), from rating curve extended above 69,000 cfs; minimum, 6.6 cfs Sept. 16, 17, 20, 1954.

Maximum stage, 50.5 ft in August 1915, from information by Corps of Engineers.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1211: 1945(M), 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	556	1,850	409	327	463	1,180	319	857	471	89	108	32
2	445	1,660	387	319	430	1,080	306	768	705	90	96	34
3	363	1,630	368	329	404	1,000	282	711	1,060	98	90	32
4	302	1,350	339	1,130	471	905	282	679	689	113	88	31
5	261	1,190	320	1,890	1,310	848	278	611	522	97	82	33
6	234	1,050	304	1,340	1,360	850	277	574	417	86	76	34
7	219	931	286	1,060	1,160	991	278	882	353	80	74	33
8	208	844	277	907	1,000	965	279	1,580	312	77	70	30
9	733	2,570	268	817	867	882	272	1,230	314	83	70	29
10	803	3,500	257	750	773	874	263	1,030	292	76	73	28
11	704	2,330	251	697	806	896	255	2,350	261	71	72	27
12	614	1,820	243	640	1,950	851	248	2,900	232	69	68	26
13	937	1,490	236	717	3,120	814	235	1,920	208	73	64	26
14	2,970	1,860	228	4,510	2,420	773	224	1,430	191	75	61	25
15	1,950	3,470	234	3,620	1,940	739	219	1,110	176	72	58	24
16	1,290	2,710	287	2,460	1,610	669	215	911	163	68	56	24
17	967	2,130	396	1,940	1,720	606	212	760	152	65	54	23
18	789	1,730	427	1,630	1,840	564	213	636	141	62	51	23
19	678	1,430	404	1,330	1,750	537	215	539	139	60	48	26
20	593	1,220	377	1,110	1,750	505	217	468	127	56	48	28
21	522	1,030	368	991	1,750	475	221	404	121	53	47	25
22	460	891	476	919	4,120	453	232	353	113	50	47	27
23	419	779	490	846	3,570	431	295	364	109	79	45	30
24	730	675	466	784	2,700	407	952	2,460	104	65	44	31
25	1,500	608	435	736	2,210	398	1,120	3,090	99	74	42	38
26	1,120	571	407	679	1,900	390	943	1,630	94	90	39	34
27	10,300	540	380	614	1,610	382	821	1,100	89	79	37	34
28	11,700	503	361	559	1,340	378	720	850	86	79	36	34
29	6,780	466	340	527	-------	367	654	699	88	81	34	33
30	3,760	434	323	506	-------	349	705	592	91	92	33	32
31	2,570	-------	326	488	-------	325	-------	503	-------	100	32	-------
TOTAL	55,477	43,262	10,670	35,172	46,344	20,884	11,752	33,991	7,919	2,402	1,843	886
MEAN	1,790	1,442	344	1,135	1,655	674	392	1,096	264	77.5	59.5	29.5
MAX	11,700	3,500	490	4,510	4,120	1,180	1,120	3,090	1,060	113	108	38
MIN	208	434	228	319	404	325	212	353	86	50	32	23
CFSM	2.17	1.75	.42	1.38	2.01	.82	.48	1.33	.32	.09	.07	.04
IN.	2.50	1.95	.48	1.59	2.09	.94	.53	1.53	.36	.11	.08	.04
AC-FT	110,000	85,810	21,160	69,760	91,920	41,420	23,310	67,420	15,710	4,760	3,660	1,760

CAL YR 1970 TOTAL 380,673 MEAN 1,043 MAX 24,100 MIN 44 CFSM 1.26 IN 17.16 AC-FT 755,100
WTR YR 1971 TOTAL 270,602 MEAN 741 MAX 11,700 MIN 23 CFSM .90 IN 12.20 AC-FT 536,700

PEAK DISCHARGE (BASE, 13,000 CFS).--OCT. 27 (1530) 14,700 CFS (16.11 FT)

07057500 North Fork River near Tecumseh, Mo.

LOCATION.--Lat 36°37'22", long 92°14'53", in NE¼SE¼ sec.35, T.23 N., R.12 W., Ozark County, on right bank 3.2 miles downstream from Spring Creek, and 3.5 miles northeast of Tecumseh.

DRAINAGE AREA.--561 sq mi.

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 584.67 ft above mean sea level (levels by Corps of Engineers). Prior to May 12, 1945, nonrecording gage at same site at datum 0.22 ft lower.

AVERAGE DISCHARGE.--27 years, 695 cfs (16.83 inches per year, 503,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 8,330 cfs Oct. 27 (gage height, 8.60 ft); minimum, 312 cfs Sept. 30 (gage height, 2.28 ft).

Period of record: Maximum discharge, 30,600 cfs Jan. 30, 1969 (gage height, 19.33 ft); minimum, 187 cfs Sept. 14-18, 1954 (gage height, 2.06 ft).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 for Missouri.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	415	974	636	624	562	853	499	587	623	439	397	372
2	409	909	625	618	547	814	486	567	602	433	388	369
3	403	870	619	605	540	769	476	544	624	427	382	364
4	403	831	607	851	603	734	486	524	606	421	388	362
5	398	791	622	1,140	712	715	478	521	573	421	381	358
6	392	762	656	1,080	754	727	475	528	549	421	376	380
7	392	739	704	871	735	704	470	593	531	415	388	383
8	398	723	698	810	693	680	459	598	515	409	390	377
9	403	980	697	780	651	672	457	570	502	403	388	368
10	403	1,170	689	753	628	706	449	643	492	415	373	365
11	398	1,060	673	719	631	769	441	779	481	415	367	362
12	392	989	651	691	667	799	433	830	468	409	360	357
13	427	932	637	1,020	761	791	433	952	476	403	354	352
14	705	894	623	2,030	816	779	425	859	507	392	349	349
15	591	858	631	1,680	805	756	422	773	631	392	351	348
16	526	846	676	1,330	774	712	421	713	604	392	350	350
17	483	826	703	1,180	755	668	421	671	565	381	343	347
18	455	807	709	1,070	728	653	422	641	539	381	339	343
19	435	789	703	944	741	644	417	612	520	494	336	352
20	419	779	684	848	746	624	417	585	507	433	332	375
21	408	771	684	799	805	603	422	561	494	403	332	369
22	395	757	685	770	1,450	593	452	566	488	398	1,290	355
23	395	730	682	739	1,670	577	537	580	482	392	1,460	345
24	404	719	669	712	1,360	561	939	662	476	392	724	335
25	397	718	661	688	1,200	552	987	716	469	391	567	339
26	430	708	650	666	1,110	547	841	661	457	386	499	334
27	3,890	698	644	637	1,010	540	762	671	451	379	453	331
28	2,400	676	637	616	905	530	703	814	451	377	422	326
29	1,900	656	629	611	------	521	653	739	445	390	402	321
30	1,370	645	628	608	------	510	623	678	445	440	388	317
31	1,120	------	632	590	------	506	------	630	------	420	378	------
TOTAL	21,956	24,607	20,444	27,080	23,359	20,609	15,906	20,368	15,573	12,664	14,247	10,605
MEAN	708	820	659	874	834	665	530	657	519	409	460	354
MAX	3,890	1,170	709	2,030	1,670	853	987	952	631	494	1,460	383
MIN	392	645	607	590	540	506	417	521	445	377	332	317
CFSM	1.26	1.46	1.17	1.56	1.49	1.19	.94	1.17	.93	.73	.82	.63
IN.	1.46	1.63	1.36	1.80	1.55	1.37	1.05	1.35	1.03	.84	.94	.70
AC-FT	43,550	48,810	40,550	53,710	46,330	40,880	31,550	40,400	30,890	25,120	28,260	21,040

CAL YR 1970 TOTAL 241,336 MEAN 661 MAX 5,090 MIN 328 CFSM 1.18 IN 16.00 AC-FT 478,700
WTR YR 1971 TOTAL 227,418 MEAN 623 MAX 3,890 MIN 317 CFSM 1.11 IN 15.08 AC-FT 451,100

PEAK DISCHARGE (BASE, 5,000 CFS).--OCT. 27 (1845) 8,330 CFS (8.60 FT).

07058000 Bryant Creek near Tecumseh, Mo.

LOCATION.--Lat 36°37'33", long 92°18'16", in E½ sec.32, T.23 N., R.12 W., Ozark County, on left bank 0.8 mile downstream from Pine Creek, 3 miles northwest of Tecumseh, and 5 miles upstream from mouth.

DRAINAGE AREA.--570 sq mi.

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 573.15 ft above mean sea level (levels by Corps of Engineers). Prior to July 30, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 507 cfs (12.08 inches per year, 367,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 19,000 cfs Oct. 27 (gage height, 16.60 ft); minimum, 140 cfs Aug. 20-22, 31, Sept. 1, 15, 16, 29, 30 (gage height, 2.15 ft).

Period of record: Maximum discharge, 26,800 cfs May 15, 1956 (gage height, 19.64 ft); minimum, 96 cfs Sept. 16, 17, 1954; minimum gage height, 1.98 ft Aug. 13, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1441: 1945, 1946-47(M), 1950. WSP 1731: 1945-47, 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	324	920	379	352	383	667	341	446	438	196	197	155
2	306	844	369	358	367	628	331	426	433	189	179	159
3	287	781	360	500	362	583	322	401	463	182	172	153
4	270	701	349	1,350	392	547	316	384	415	180	183	148
5	258	630	352	1,190	444	527	323	380	384	180	179	148
6	252	580	413	955	435	541	325	382	368	176	170	225
7	249	541	437	793	436	528	324	433	354	171	179	274
8	253	515	423	707	417	499	319	402	342	168	196	227
9	271	1,200	414	661	393	489	318	375	332	166	182	184
10	257	1,230	402	619	382	532	311	426	324	169	171	167
11	243	932	394	566	391	557	306	533	314	188	166	161
12	236	843	379	525	460	560	305	553	306	180	161	153
13	400	762	365	1,140	626	555	303	551	314	172	156	149
14	704	708	353	2,080	616	551	297	491	342	165	152	146
15	412	673	356	1,410	597	537	292	452	355	163	149	143
16	340	637	434	1,110	574	495	291	424	318	160	148	146
17	306	614	470	987	555	466	289	399	294	156	146	146
18	289	590	464	888	529	454	291	381	279	153	144	146
19	276	565	455	762	546	446	286	366	272	331	142	156
20	264	587	428	671	541	427	289	346	264	341	139	183
21	254	547	423	632	630	418	304	328	253	232	137	177
22	247	521	426	601	1,260	413	298	343	246	200	179	161
23	247	485	418	567	1,280	396	426	381	238	188	229	153
24	261	454	400	535	1,070	384	1,060	647	231	182	189	149
25	282	442	388	505	961	383	894	655	228	178	168	149
26	320	440	378	485	904	379	727	529	216	170	159	153
27	10,200	431	370	436	814	370	634	484	209	163	153	146
28	4,630	412	362	428	716	366	567	487	205	159	146	143
29	2,360	396	354	423	-----	359	509	445	202	166	146	143
30	1,530	387	350	421	------	347	484	419	198	284	144	140
31	1,150	------	359	405	------	344	------	400	------	247	142	------
TOTAL	27,678	19,368	12,224	23,062	17,081	14,748	12,082	13,669	9,137	5,955	5,103	4,883
MEAN	893	[illegible]6	394	744	610	476	403	441	305	192	165	163
MAX	10,200	1,230	470	2,080	1,280	667	1,060	655	463	341	229	274
MIN	236	387	349	352	362	344	286	328	198	153	137	140
CFSM	1.57	1.13	.69	1.31	1.07	.84	.71	.77	.54	.34	.29	.29
IN.	1.81	1.26	.80	1.51	1.11	.96	.79	.89	.60	.39	.33	.32
AC-FT	54,900	38,420	24,250	45,740	33,880	29,250	23,960	27,110	18,120	11,810	10,120	9,690

CAL YR 1970 TOTAL 163,136 MEAN 447 MAX 10,200 MIN 167 CFSM .78 IN 10.65 AC-FT 323,600
WTR YR 1971 TOTAL 164,990 MEAN 452 MAX 10,200 MIN 137 CFSM .79 IN 10.77 AC-FT 327,300

PEAK DISCHARGE (BASE, 6,000 CFS).--OCT. 27 (1715) 19,000 CFS (16.60 FT).

07059500 Norfork Lake near Norfork, Ark.

LOCATION.--Lat 36°14'57", long 92°14'16", in SE¼ sec.2, T.18 N., R.12 W., Baxter County, at dam on North Fork River, 4.3 miles northeast of Norfork, and at mile 4.8.

DRAINAGE AREA.--1,806 sq mi.

PERIOD OF RECORD.--June 1943 to current year. Prior to October 1969, published as Norfork Reservoir near Norfork.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Feb. 1, 1945, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 1,203,000 acre-ft Dec. 10 (elevation, 549.76 ft); minimum, 967,200 acre-ft Sept. 30 (elevation, 537.87 ft).

Period of record: Maximum contents, 1,789,000 acre-ft June 10-11, 1957 (elevation, 573.44 ft); minimum since power-pool level was first reached, 541,500 acre-ft Sept. 21, 1954 (elevation, 509.78 ft).

REMARKS.--Lake is formed by concrete-gravity dam. Storage began on June 18, 1943, and bottom of power pool was first reached June 13, 1944. Capacity between 552.0 and 580.0 ft is 731,800 acre-ft and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Contents computed from daily readings at 2400 hours to five significant figures prior to Oct. 1, 1963. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates......................	580.0	1,983,000
Crest of gated spillway and top of designated power pool................	552.0	1,251,200
Bottom of designated power pool...........	528.3	802,900
Bottom of lowest outlet....................	395.0	2,500

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

537	951.2	545	1,104
540	1,007	550	1,207

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,033	1,120	1,192	1,093	1,096	1,088	1,101	1,115	1,152	1,115	1,082	1,038
2	1,033	1,124	1,194	1,090	1,092	1,088	1,101	1,117	1,151	1,113	1,082	1,035
3	1,034	1,128	1,195	1,092	1,089	1,087	1,101	1,117	1,151	1,113	1,081	1,032
4	1,034	1,128	1,196	1,096	1,088	1,085	1,103	1,117	1,151	1,114	1,081	1,031
5	1,029	1,130	1,199	1,098	1,086	1,082	1,101	1,119	1,152	1,115	1,082	1,030
6	1,025	1,133	1,200	1,098	1,084	1,086	1,097	1,120	1,155	1,111	1,082	1,029
7	1,022	1,136	1,201	1,098	1,082	1,090	1,093	1,121	1,155	1,109	1,084	1,025
8	1,022	1,140	1,201	1,096	1,079	1,089	1,091	1,124	1,155	1,106	1,084	1,022
9	1,022	1,147	1,202	1,096	1,076	1,090	1,090	1,126	1,156	1,104	1,084	1,019
10	1,022	1,153	1,201	1,096	1,073	1,088	1,092	1,136	1,155	1,105	1,083	1,016
11	1,023	1,158	1,194	1,096	1,070	1,090	1,094	1,141	1,153	1,105	1,080	1,015
12	1,024	1,162	1,192	1,096	1,071	1,093	1,096	1,143	1,154	1,101	1,079	1,015
13	1,027	1,166	1,191	1,113	1,070	1,096	1,095	1,144	1,154	1,096	1,077	1,012
14	1,029	1,170	1,188	1,124	1,069	1,099	1,093	1,146	1,152	1,092	1,077	1,009
15	1,031	1,173	1,183	1,128	1,068	1,101	1,091	1,149	1,150	1,088	1,077	1,009
16	1,033	1,174	1,177	1,130	1,067	1,100	1,090	1,152	1,146	1,084	1,076	1,007
17	1,034	1,176	1,169	1,131	1,066	1,100	1,090	1,151	1,142	1,083	1,073	1,005
18	1,035	1,178	1,161	1,130	1,064	1,098	1,092	1,150	1,139	1,085	1,070	1,005
19	1,036	1,181	1,153	1,129	1,062	1,096	1,094	1,148	1,139	1,084	1,066	1,006
20	1,037	1,184	1,144	1,127	1,060	1,098	1,096	1,144	1,140	1,084	1,061	1,005
21	1,038	1,186	1,140	1,126	1,062	1,100	1,095	1,141	1,140	1,082	1,059	1,000
22	1,039	1,189	1,139	1,124	1,066	1,101	1,097	1,142	1,136	1,082	1,064	996.0
23	1,040	1,189	1,134	1,122	1,070	1,100	1,099	1,147	1,133	1,083	1,062	991.6
24	1,041	1,187	1,131	1,120	1,073	1,098	1,103	1,148	1,130	1,084	1,058	987.5
25	1,043	1,187	1,130	1,117	1,076	1,096	1,108	1,149	1,126	1,083	1,055	989.8
26	1,047	1,189	1,128	1,114	1,078	1,095	1,109	1,148	1,125	1,083	1,051	989.8
27	1,082	1,188	1,124	1,111	1,082	1,096	1,110	1,146	1,125	1,081	1,047	984.6
28	1,099	1,190	1,117	1,108	1,086	1,099	1,112	1,147	1,122	1,081	1,045	979.1
29	1,106	1,192	1,110	1,105	-------	1,100	1,112	1,150	1,118	1,082	1,046	973.4
30	1,110	1,192	1,103	1,103	-------	1,100	1,112	1,151	1,116	1,081	1,042	967.2
31	1,116	-------	1,096	1,099	-------	1,099	-------	1,153	-------	1,081	1,041	-------
MAX	1,116	1,192	1,202	1,131	1,096	1,101	1,112	1,153	1,156	1,115	1,084	1,038
MIN	1,022	1,120	1,096	1,090	1,060	1,082	1,090	1,115	1,116	1,081	1,041	967.2
(†)	545.60	549.27	544.63	544.78	544.11	544.78	545.40	547.40	545.59	543.86	541.80	537.87
(‡)	+84	+76	-96	+3	-13	+13	+13	+41	-37	-35	-40	-73.8

CAL YR 1970...................... ‡ +186.7
WTR YR 1971...................... ‡ -64.8

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

07060000 North Fork River at Norfork Dam, near Norfork, Ark.

LOCATION.--Lat 36°14'57", long 92°14'18", in SE¼SW¼ sec.2, T.18 N., R.12 W., Baxter County, at Norfork Dam, 3.9 miles northeast of Norfork, and at mile 4.8.

DRAINAGE AREA.--1,806 sq mi.

PERIOD OF RECORD.--May 1944 to current year.

GAGE.--Water-stage recorder in float well in powerplant. Datum of gage is at mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--27 years, 1,795 cfs (1,300,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 5,580 cfs Dec. 18; minimum daily, 96 cfs Apr. 18, May 23, 30, June 6.
Period of record: Maximum daily discharge, 21,000 cfs Apr. 16, 1945; no flow at times.

REMARKS.--Discharge computations based on power releases, conduit releases, spillway releases, fish hatchery releases and estimated leakage. Fish hatchery releases of about 35 cfs began about Oct. 1, 1957. Flow completely regulated by Norfork Lake. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WRD Ark. 1967: 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	563	100	920	2,780	2,850	1,620	447	98	2,350	729	263	2,160
2	564	469	546	2,840	2,860	1,820	1,350	97	2,360	1,580	521	1,830
3	384	103	316	1,920	2,850	2,010	860	1,200	1,680	302	659	2,000
4	383	1,020	547	2,100	2,850	2,890	100	1,000	1,450	233	709	957
5	2,780	330	101	2,440	2,860	2,600	2,090	395	434	272	323	790
6	3,050	300	103	1,960	2,850	104	3,070	1,160	96	2,120	401	1,290
7	1,690	101	857	2,060	2,850	106	2,600	1,140	1,200	1,720	263	2,500
8	1,390	99	1,140	2,780	2,860	1,960	1,930	98	761	1,690	488	2,200
9	911	785	557	2,080	2,850	1,790	1,520	97	325	1,800	987	2,000
10	98	101	1,680	1,760	2,860	2,190	99	1,180	1,730	440	997	2,010
11	98	329	4,500	1,640	2,860	906	98	1,240	1,810	292	1,810	750
12	394	102	1,850	1,730	2,870	557	327	1,680	880	2,690	898	365
13	98	330	1,350	1,700	2,860	465	1,350	1,340	869	2,680	1,600	2,140
14	395	102	2,480	2,030	2,870	97	1,660	1,340	1,580	2,650	337	1,700
15	298	103	3,950	2,480	2,870	1,370	1,820	97	2,480	2,480	416	992
16	221	1,220	5,520	2,650	2,850	1,590	1,590	97	2,600	2,740	1,010	1,170
17	300	935	4,760	2,530	2,860	1,840	841	2,360	2,610	749	1,840	813
18	100	767	5,580	2,900	2,860	2,170	96	1,920	2,380	342	2,200	246
19	329	101	5,460	2,920	2,860	2,530	435	2,370	772	808	2,340	246
20	101	101	5,460	2,950	2,860	102	445	2,590	295	779	2,440	1,300
21	219	101	3,760	2,580	2,870	171	1,260	2,700	1,040	1,240	1,360	2,530
22	566	100	1,840	2,860	2,840	568	336	1,040	2,340	779	988	2,360
23	446	1,280	3,440	2,830	2,240	1,730	257	96	2,020	332	3,150	2,560
24	99	1,560	2,410	2,840	1,980	2,420	128	2,160	2,440	313	2,530	2,240
25	99	1,220	1,710	2,840	1,850	2,280	97	1,130	2,300	818	2,430	246
26	1,350	100	2,280	2,860	1,720	1,480	999	2,330	1,130	432	2,340	442
27	822	1,800	2,820	2,860	785	449	1,130	2,260	422	1,520	2,680	2,990
28	1,530	100	4,560	2,850	103	179	970	1,120	2,430	798	1,080	3,330
29	1,420	99	4,480	2,870	------	438	1,340	97	2,260	1,120	353	3,430
30	1,000	1,000	4,590	2,850	------	1,240	1,240	96	2,320	748	1,980	3,510
31	100	------	4,480	2,830	------	892	------	771	------	412	1,140	------
TOTAL	21,798	14,858	84,087	77,320	71,548	40,564	30,485	35,299	47,364	35,608	40,533	51,097
MEAN	703	495	2,712	2,494	2,555	1,309	1,016	1,139	1,579	1,149	1,308	1,703
MAX	3,050	1,800	5,580	2,950	2,870	2,890	3,070	2,700	2,610	2,740	3,150	3,510
MIN	98	99	101	1,640	103	97	96	96	96	233	263	246
AC-FT	43,240	29,470	166,800	153,400	141,900	80,460	60,470	70,020	93,950	70,630	80,400	101,400

CAL YR 1970 TOTAL 519,108 MEAN 1,422 MAX 5,580 MIN 96 AC-FT 1,030,000
WTR YR 1971 TOTAL 550,561 MEAN 1,508 MAX 5,580 MIN 96 AC-FT 1,092,000

07060500 White River at Calico Rock, Ark.

LOCATION.--Lat 36°06'58", long 92°08'35", in SE¼NE¼ sec.22, T.17 N., R.11 W., Izard County, on left bank at Calico Rock, 200 ft upstream from bridge on State Highway 5, 700 ft upstream from Calico Creek, 3.2 miles downstream from Cataract Creek, 6 miles upstream from Piney Creek, and at mile 359.1.

DRAINAGE AREA.--9,965 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at same site since 1904 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 316.38 ft above mean sea level. Prior to Jan. 26, 1940, nonrecording gage at same site and Jan. 27 to Aug. 13, 1940, nonrecording gage at site 500 ft downstream, both at datum 2.07 ft higher. Aug. 14, 1940, to Dec. 5, 1966, water-stage recorder at datum 1.00 ft higher.

AVERAGE DISCHARGE.--32 years, 9,737 cfs (7,054,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 30,000 cfs Jan. 16 (gage height, 11.69 ft); minimum, 766 cfs Sept. 20; minimum daily, 1,150 cfs Sept. 26.

Period of record: Maximum discharge, 310,000 cfs Apr. 16, 1945 (gage height, 49.84 ft, present datum); minimum observed, 305 cfs Sept. 27, 1954; minimum daily, 310 cfs Sept. 27, 1954.

Maximum stage since at least 1904, 52.9 ft Jan. 31, 1916, present datum, from records of U.S. Weather Bureau (discharge, 350,000 cfs).

REMARKS.--Records good. Flow regulated by Norfork Lake since 1943 (see sta 07058500), by Bull Shoals Lake, 59.5 miles upstream, since July 24, 1951 (see sta 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see sta 07053400), and by Beaver Lake since Dec. 26, 1963 (see sta 07049690). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1117: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,750	10,100	12,100	12,900	10,200	12,100	2,900	3,110	8,390	3,860	1,430	4,660
2	10,700	9,930	11,600	12,300	11,600	18,700	4,380	2,540	10,400	3,120	1,260	6,380
3	11,700	12,900	13,000	10,700	9,440	20,100	4,920	2,710	9,430	2,370	3,540	7,410
4	8,520	14,900	14,400	9,720	8,750	19,500	2,230	4,780	9,690	1,400	2,230	6,100
5	9,750	16,200	15,700	15,600	7,420	19,200	2,410	5,120	12,900	1,420	1,980	5,450
6	10,900	15,800	15,900	13,700	8,680	15,400	6,660	4,380	13,500	2,130	1,230	4,070
7	5,750	16,000	17,700	13,700	6,960	8,000	7,380	4,720	5,850	6,420	1,360	7,370
8	5,810	15,500	18,900	12,300	5,650	5,610	4,420	4,060	8,700	8,080	1,590	13,500
9	4,590	18,200	20,300	9,030	9,680	17,700	3,610	3,220	5,540	10,800	1,660	15,100
10	7,710	16,800	22,000	8,160	9,470	17,700	2,580	3,250	3,760	3,880	8,670	10,100
11	6,390	15,000	24,700	8,090	11,000	17,400	2,330	8,030	6,050	2,740	8,650	12,400
12	2,720	14,100	23,200	6,220	12,200	16,200	1,920	8,200	7,090	3,300	4,900	2,810
13	5,820	13,400	23,300	10,800	15,100	13,900	4,840	10,100	3,460	10,000	4,040	2,110
14	9,630	12,600	21,000	11,600	14,900	5,300	5,740	8,390	4,660	9,580	9,740	4,060
15	15,600	9,980	21,400	17,200	14,200	4,950	5,030	8,490	6,660	5,300	2,480	5,700
16	15,400	11,700	22,600	22,100	14,300	13,200	5,630	4,860	9,170	7,450	2,800	2,580
17	14,400	10,600	23,600	20,400	13,900	13,500	5,410	6,800	8,980	4,970	4,550	2,240
18	10,700	8,660	24,000	19,200	13,800	14,000	3,080	14,300	9,110	4,900	3,880	1,370
19	9,130	8,780	22,200	20,300	13,400	14,800	1,510	10,400	11,700	2,120	8,960	1,180
20	14,300	9,510	19,000	20,000	13,300	12,500	5,060	7,070	3,510	2,050	9,520	1,290
21	14,300	8,940	17,600	21,000	13,400	3,160	7,600	7,640	1,870	2,330	9,650	2,680
22	14,700	8,230	16,100	23,400	16,100	2,580	5,780	6,900	4,140	3,490	3,770	3,900
23	14,900	8,750	16,800	23,000	18,800	10,600	4,900	4,880	5,340	2,440	5,520	3,980
24	11,700	13,400	16,300	22,700	17,600	12,400	5,250	5,120	6,330	1,770	14,300	3,870
25	6,720	12,000	15,400	22,300	16,500	13,100	3,330	12,700	12,800	1,560	9,950	2,770
26	4,020	9,960	15,400	21,600	17,700	12,100	4,340	16,100	8,700	3,170	9,800	1,150
27	12,300	10,400	16,200	21,500	17,300	9,860	6,490	15,200	3,430	2,450	6,280	3,350
28	23,300	8,730	16,500	21,800	9,310	4,640	7,520	12,500	3,830	2,410	3,250	18,100
29	22,700	10,200	15,700	19,700	------	3,790	4,840	11,400	6,350	2,330	2,180	18,500
30	16,200	10,600	13,900	16,900	------	4,380	4,580	6,680	7,310	2,270	2,630	18,300
31	11,100	------	14,200	12,600	------	4,200	------	4,860	------	1,690	4,180	------
TOTAL	341,210	361,870	560,700	500,520	350,660	360,570	136,670	228,510	218,650	121,800	155,980	192,480
MEAN	11,010	12,060	18,090	16,150	12,520	11,630	4,556	7,371	7,288	3,929	5,032	6,416
MAX	23,300	18,200	24,700	23,400	18,800	20,100	7,600	16,100	13,500	10,800	14,300	18,500
MIN	2,720	8,230	11,600	6,220	5,650	2,580	1,510	2,540	1,870	1,400	1,230	1,150
AC-FT	676,800	717,800	1,112M	992,800	695,500	715,200	271,100	453,200	433,700	241,600	309,400	381,800

CAL YR 1970 TOTAL 3,453,420 MEAN 9,461 MAX 51,300 MIN 1,480 AC-FT 6,850,000
WTR YR 1971 TOTAL 3,529,620 MEAN 9,670 MAX 24,700 MIN 1,150 AC-FT 7,001,000

07060710 North Sylamore Creek near Fifty Six, Ark.
(Hydrologic bench-mark station)

LOCATION.--Lat 35°59'30", long 92°12'50", in SW¼NW¼ sec.25, T.16 N., R.12 W., Stone County, on right bank 30 ft upstream from bridge on Ozark National Forest service road, 200 ft downstream from Gunner Creek, 2.7 miles north of Fifty Six, and 7.0 miles upstream from South Sylamore Creek.

DRAINAGE AREA.--58.4 sq mi.

PERIOD OF RECORD.--December 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 434.99 ft above mean sea level.

AVERAGE DISCHARGE.--5 years, 46.4 cfs (10.79 inches per year, 33,620 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,030 cfs Jan. 13 (gage height, 5.76 ft); minimum, 2.4 cfs Sept. 18-19 (gage height, 1.63 ft).

Period of record: Maximum discharge, 14,900 cfs Apr. 23, 1966 (gage height, 16.35 ft, from floodmarks), from rating curve extended above 3,700 cfs on basis of step-backwater computations; minimum daily, 2.0 cfs Oct. 9-13, 1966.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	37	12	22	15	40	14	12	109	5.5	5.0	3.0
2	10	29	12	20	14	37	14	12	59	5.2	4.0	2.8
3	9.0	24	12	24	14	33	13	11	70	4.9	4.0	2.8
4	8.2	21	11	81	24	30	13	10	47	4.9	4.0	3.0
5	7.4	19	11	83	74	28	13	11	29	5.2	4.0	3.2
6	7.8	17	11	78	58	30	13	11	22	4.9	4.0	3.2
7	7.8	16	10	35	49	27	14	19	19	4.3	4.5	3.2
8	9.0	17	10	29	37	24	13	20	17	4.3	7.0	3.2
9	31	265	10	27	29	23	14	16	16	4.3	6.5	3.2
10	23	121	10	25	27	27	13	18	14	5.2	6.0	3.2
11	15	77	11	23	32	26	12	136	13	5.8	6.0	3.1
12	13	61	10	21	280	24	12	185	12	5.5	6.0	2.9
13	113	55	9.8	215	218	24	12	208	13	4.6	6.0	2.8
14	233	194	9.4	425	133	24	12	101	14	4.0	6.0	2.7
15	93	103	13	157	96	23	12	66	13	3.8	5.5	2.6
16	57	110	61	104	73	21	12	43	12	3.8	5.5	2.6
17	32	76	64	81	67	19	12	29	9.8	3.6	5.0	2.6
18	23	53	45	62	64	19	12	23	9.0	3.6	4.5	2.6
19	19	43	32	49	59	19	12	19	8.2	3.6	3.5	2.9
20	16	35	24	39	53	17	12	16	7.8	3.8	3.4	3.3
21	14	27	97	37	64	17	12	14	7.4	3.6	3.4	3.6
22	13	23	112	32	181	16	11	13	7.8	3.4	3.8	3.8
23	12	20	83	27	136	16	15	14	7.0	6.1	4.3	3.7
24	14	17	59	27	99	15	17	37	6.7	7.8	3.7	3.6
25	14	16	45	24	77	16	15	27	6.4	6.4	3.4	4.9
26	15	16	35	22	66	16	13	17	5.8	5.2	3.4	6.7
27	213	16	28	19	56	17	13	14	5.8	4.6	3.2	6.1
28	325	14	25	18	45	17	12	12	5.8	4.3	3.2	4.9
29	170	13	21	18	------	16	13	11	5.8	5.2	3.1	4.1
30	91	13	20	18	------	15	13	11	5.8	8.2	3.0	3.7
31	58	------	20	17	------	14	------	10	------	6.0	3.0	------
TOTAL	1,678.2	1,628	933.2	1,859	2,140	690	388	1,146	578.1	151.6	137.9	104.0
MEAN	54.1	54.3	30.1	60.0	76.4	22.3	12.9	37.0	19.3	4.89	4.45	3.47
MAX	325	265	112	425	280	40	17	208	109	8.2	7.0	6.7
MIN	7.4	13	9.4	17	14	14	11	10	5.8	3.4	3.0	2.6
CFSM	.93	.93	.52	1.03	1.31	.38	.22	.63	.33	.08	.08	.06
IN.	1.07	1.04	.59	1.18	1.36	.44	.25	.73	.37	.10	.09	.07
AC-FT	3,330	3,230	1,850	3,690	4,240	1,370	770	2,270	1,150	301	274	206

CAL YR 1970 TOTAL 15,430.7 MEAN 42.3 MAX 1,990 MIN 3.2 CFSM .72 IN 9.83 AC-FT 30,610
WTR YR 1971 TOTAL 11,434.0 MEAN 31.3 MAX 425 MIN 2.6 CFSM .54 IN 7.28 AC-FT 22,680

PEAK DISCHARGE (BASE, 2,800 CFS).--NO PEAK ABOVE BASE.

07064000 Black River near Corning, Ark.

LOCATION.--Lat 36°24'07", long 90°32'29", in SW¼NE¼ sec.4, T.20 N., R.5 E., Clay County, near left bank on downstream side of bridge on U.S. Highway 62, 2.2 miles east of Corning, 11.9 miles downstream from Cane Creek, and at mile 152.2.

DRAINAGE AREA.--1,749 sq mi.

PERIOD OF RECORD.--October 1938 to current year. Gage-height records collected at site 7 miles downstream January 1925 to December 1929 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 272.90 ft above mean Gulf level (Corps of Engineers bench mark). Prior to Nov. 5, 1953, nonrecording gage, and Nov. 5, 1953, to Oct. 9, 1957, water-stage recorder, at site 30 ft downstream at same datum.

AVERAGE DISCHARGE.--33 years, 1,710 cfs (1,239,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,550 cfs Jan. 17 (gage height, 11.80 ft); minimum, 312 cfs Sept. 22, 27 (gage height, 0.27 ft).

Period of record: Maximum discharge, 48,600 cfs June 13, 1945; maximum gage height, 16.92 ft June 13, 1945; minimum discharge, 224 cfs Sept. 22-27, 1941; minimum gage height observed, -0.52 ft Sept. 26, 1941.

Flood of Apr. 18, 1927, reached a stage of 14.4 ft, from records of Corps of Engineers.

REMARKS.--Records good. Some regulation by Clearwater Lake (Missouri), 105 miles upstream, since June 3, 1948 (capacity, 413,700 acre-ft). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,420	929	725	974	1,060	3,220	876	1,130	925	495	485	350
2	1,430	979	725	960	994	3,110	857	1,090	860	481	468	355
3	1,430	1,030	738	1,030	950	2,940	837	970	814	498	473	365
4	1,430	1,050	717	1,770	936	2,780	804	851	817	516	490	360
5	1,410	1,070	678	2,640	976	2,650	779	754	874	499	491	360
6	1,300	1,070	635	3,020	1,160	2,530	767	727	980	488	495	360
7	1,130	1,100	600	3,060	1,230	2,280	759	707	1,020	474	494	355
8	905	1,160	577	2,780	1,270	2,120	755	703	928	463	478	350
9	794	1,190	554	2,420	1,320	1,960	752	730	799	463	467	345
10	773	1,130	537	2,100	1,470	1,820	743	785	704	464	475	340
11	755	1,070	530	1,930	1,540	1,780	740	803	662	466	467	340
12	728	1,000	527	1,660	1,750	1,700	775	807	661	468	449	335
13	709	954	523	1,630	2,160	1,610	836	951	709	470	448	335
14	708	1,000	519	2,380	2,570	1,510	881	1,090	786	454	492	330
15	939	1,070	514	3,670	2,630	1,460	906	1,100	803	448	529	325
16	980	1,130	577	5,490	2,600	1,440	930	1,100	740	444	504	320
17	933	1,160	931	6,420	2,490	1,430	987	1,150	661	452	455	316
18	924	1,170	1,130	5,440	2,360	1,390	1,060	1,180	767	456	434	315
19	952	1,170	1,120	4,330	2,290	1,370	1,040	1,170	1,010	457	410	314
20	979	1,160	979	3,570	2,360	1,350	960	1,110	1,090	446	405	315
21	999	1,120	1,050	3,100	2,630	1,310	895	1,050	1,030	439	405	313
22	993	1,060	1,700	2,740	3,160	1,250	863	992	868	435	420	312
23	923	1,010	2,040	2,430	4,370	1,200	870	927	764	430	430	315
24	787	975	2,140	2,210	5,900	1,150	855	906	730	430	420	314
25	736	954	2,130	2,030	6,070	1,090	889	879	723	598	400	314
26	689	933	1,800	1,830	5,030	1,050	949	872	751	1,100	390	313
27	687	896	1,500	1,590	4,130	1,020	980	899	747	1,070	380	312
28	701	832	1,250	1,400	3,570	1,010	1,030	915	678	806	365	314
29	749	770	1,110	1,290	-------	984	1,070	952	589	606	360	316
30	801	739	1,050	1,180	-------	944	1,140	983	531	550	350	316
31	830	-------	1,000	1,140	-------	905	-------	976	-------	505	350	-------
TOTAL	29,524	30,881	30,606	78,214	68,976	52,363	26,585	29,259	24,021	16,371	13,679	9,924
MEAN	952	1,029	987	2,523	2,463	1,689	886	944	801	528	441	331
MAX	1,430	1,190	2,140	6,420	6,070	3,220	1,140	1,180	1,090	1,100	529	365
MIN	687	739	514	960	936	905	740	703	531	430	350	312
AC-FT	58,560	61,250	60,710	155,100	136,800	103,900	52,730	58,040	47,650	32,470	27,130	19,680

CAL YR 1970 TOTAL 582,570 MEAN 1,596 MAX 13,200 MIN 466 AC-FT 1,156,000
WTR YR 1971 TOTAL 410,403 MEAN 1,124 MAX 6,420 MIN 312 AC-FT 814,000

07068000 Current River at Doniphan, Mo.

LOCATION.--Lat 36°37'19", long 90°50'51", in NW¼NW¼ sec.27, T.23 N., R.2 E., Ripley County, on right bank 0.5 mile upstream from U.S. Highway 160, 1 mile west of Doniphan, 2.5 miles upstream from Brian Creek, and at mile 51.3.

DRAINAGE AREA.--2,038 sq mi.

PERIOD OF RECORD.--October 1918 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 322.21 ft above mean sea level. Prior to July 3, 1936, nonrecording gages at several sites 0.5 mile downstream at various datums.

AVERAGE DISCHARGE.--53 years, 2,654 cfs (17.68 inches per year, 1,923,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 15,000 cfs Oct. 15 (gage height, 8.29 ft); minimum estimated, 950 cfs Sept. 17, 18 (gage height, unknown).

Period of record: Maximum discharge, 94,400 cfs Mar. 12, 1935 (gage height, 22.0 ft, present site and datum), from rating curve extended above 60,000 cfs; minimum, 852 cfs Oct. 8-19, 1956.

Maximum stage known, 24.9 ft in March 1904, from floodmarks, present site and datum (discharge, 130,000 cfs, from rating curve extended above 60,000 cfs).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 for Missouri.

REVISIONS.(WATER YEARS).--WSP 877: 1937-38(M). WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,780	3,530	1,610	1,630	1,640	3,220	1,710	2,030	1,870	1,310	1,120	1,020
2	1,640	3,000	1,590	1,610	1,580	2,990	1,680	1,980	1,910	1,300	1,100	1,010
3	1,540	2,740	1,570	1,700	1,550	2,800	1,670	1,930	1,930	1,280	1,120	1,000
4	1,460	2,610	1,530	2,090	1,570	2,650	1,640	1,900	1,990	1,260	1,170	1,000
5	1,400	2,480	1,560	2,420	1,830	2,510	1,620	1,870	1,910	1,250	1,140	1,000
6	1,350	2,240	1,530	2,710	2,280	2,450	1,640	1,850	1,830	1,280	1,120	1,000
7	1,360	2,120	1,520	2,570	2,670	2,420	1,640	1,970	1,760	1,250	1,110	1,000
8	1,350	2,000	1,530	2,370	2,530	2,360	1,630	2,020	1,700	1,230	1,120	1,000
9	1,430	2,120	1,560	2,250	2,340	2,300	1,660	1,940	1,670	1,210	1,170	1,000
10	1,460	2,740	1,560	2,170	2,170	2,330	1,730	1,900	1,650	1,200	1,160	990
11	1,410	3,130	1,560	2,100	2,080	2,480	1,750	1,990	1,640	1,250	1,130	980
12	1,370	3,000	1,540	2,030	2,270	2,650	1,720	2,410	1,610	1,230	1,100	970
13	1,410	2,740	1,510	2,570	2,620	2,710	1,710	3,080	1,580	1,220	1,070	960
14	5,830	2,610	1,480	4,810	2,750	2,670	1,700	3,600	1,600	1,200	1,050	960
15	9,510	2,360	1,480	4,760	2,810	2,660	1,680	3,220	1,710	1,230	1,040	960
16	4,230	2,240	1,570	4,310	2,700	2,580	1,640	2,890	1,820	1,210	1,030	960
17	3,260	2,120	1,720	3,730	2,660	2,460	1,630	2,630	1,740	1,180	1,020	950
18	2,740	2,120	1,810	3,360	2,600	2,340	1,630	2,430	1,620	1,160	1,010	950
19	2,360	2,060	1,870	3,060	2,520	2,260	1,610	2,280	1,560	1,180	1,010	1,000
20	2,120	2,080	1,850	2,780	2,460	2,200	1,620	2,150	1,520	1,160	1,000	1,070
21	2,000	2,040	1,870	2,570	2,630	2,150	1,630	2,040	1,520	1,160	1,000	1,070
22	1,880	1,990	1,860	2,430	3,320	2,080	1,620	1,940	1,530	1,150	1,000	1,060
23	1,760	1,940	1,870	2,310	5,210	2,010	1,760	1,890	1,510	1,170	1,010	1,050
24	1,740	1,870	1,860	2,220	5,840	1,970	2,060	1,990	1,460	1,240	1,030	1,050
25	1,690	1,800	1,840	2,120	4,870	1,920	2,410	2,100	1,420	1,160	1,030	1,040
26	1,640	1,760	1,790	2,020	4,290	1,890	2,670	2,230	1,390	1,120	1,030	1,030
27	1,690	1,750	1,750	1,920	3,880	1,860	2,520	2,250	1,360	1,100	1,020	1,030
28	3,670	1,730	1,710	1,840	3,530	1,830	2,380	2,100	1,340	1,090	1,010	1,020
29	5,800	1,680	1,680	1,770	------	1,800	2,250	1,970	1,320	1,090	1,000	1,010
30	4,930	1,630	1,650	1,730	------	1,760	2,140	1,870	1,320	1,140	1,010	1,000
31	4,090	------	1,650	1,690	------	1,730	------	1,800	------	1,130	1,020	------
TOTAL	79,900	68,230	51,480	77,650	79,200	72,040	54,750	68,250	48,790	37,140	32,950	30,140
MEAN	2,577	2,274	1,661	2,505	2,829	2,324	1,825	2,202	1,626	1,198	1,063	1,005
MAX	9,510	3,530	1,870	4,810	5,840	3,220	2,670	3,600	1,990	1,310	1,170	1,070
MIN	1,350	1,630	1,480	1,610	1,550	1,730	1,610	1,800	1,320	1,090	1,000	950
CFSM	1.26	1.12	.82	1.23	1.39	1.14	.90	1.08	.80	.59	.52	.49
IN.	1.46	1.25	.94	1.42	1.45	1.31	1.00	1.25	.89	.68	.60	.55
AC-FT	158,500	135,300	102,100	154,000	157,100	142,900	108,600	135,400	96,770	73,670	65,360	59,780

CAL YR 1970 TOTAL 797,360 MEAN 2,185 MAX 15,000 MIN 120 CFSM 1.07 IN 14.55 AC-FT 1,582,000
WTR YR 1971 TOTAL 700,520 MEAN 1,919 MAX 9,510 MIN 950 CFSM .94 IN 12.79 AC-FT 1,389,000

PEAK DISCHARGE (BASE, 14,000 CFS).--OCT. 15 (0500) 15,000 CFS (8.29 FT).

07069500 Spring River at Imboden, Ark.

LOCATION.--Lat 36°12'19", long 91°10'19", in SE¼NE¼ sec.15, T.18 N., R.2 W., Randolph County, near left bank on downstream side of bridge on U.S. Highway 62 at Imboden, 1.8 miles upstream from Harding Creek, 3.9 miles downstream from Janes Creek, 8.2 miles upstream from Eleven Point River, and at mile 12.1.

DRAINAGE AREA.--1,162 sq mi.

PERIOD OF RECORD.--February 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 254.07 ft above mean sea level. Prior to July 17, 1937, nonrecording gage at site 200 ft downstream at same datum. July 17, 1937, to Feb. 8, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 1,325 cfs (15.49 inches per year, 960,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 14,200 cfs Jan. 14 (gage height, 18.10 ft); minimum, 368 cfs Aug. 16 (gage height, 2.56 ft).

Period of record: Maximum discharge, 78,500 cfs Jan. 24, 1949 (gage height, 28.42 ft), from rating curve extended above 45,000 cfs; minimum daily, 215 cfs Aug. 1, 1936.

Flood in August 1915 reached a stage of about 32.1 ft, from information by Corps of Engineers (discharge, about 125,000 cfs).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 927: Drainage area. WSP 1147: 1937-39, 1942-43, 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	728	1,520	919	1,160	1,180	1,660	856	829	831	530	624	478
2	698	1,430	895	1,130	1,140	1,600	886	822	989	521	560	472
3	654	1,320	874	1,600	1,150	1,550	869	801	1,080	511	567	469
4	615	1,240	848	3,740	1,190	1,470	867	780	1,090	493	646	466
5	587	1,150	802	2,820	1,850	1,410	857	770	997	499	564	451
6	569	1,090	991	2,160	1,710	1,410	863	763	909	521	519	446
7	585	1,030	967	1,850	1,590	1,360	852	850	855	518	505	445
8	619	1,020	948	1,680	1,490	1,300	835	871	817	493	497	434
9	1,620	1,870	920	1,580	1,380	1,270	828	1,010	796	485	485	444
10	1,100	2,410	899	1,500	1,310	1,470	801	947	769	479	474	424
11	858	1,950	886	1,420	1,310	1,450	793	1,670	744	491	472	433
12	778	1,680	868	1,360	3,140	1,380	787	1,550	729	455	496	421
13	1,560	1,540	840	2,400	3,750	1,350	779	1,650	705	506	459	412
14	1,960	1,550	818	11,900	2,710	1,300	777	1,420	694	474	448	394
15	1,350	1,610	831	5,980	2,300	1,300	756	1,270	675	472	446	393
16	1,110	1,530	1,300	3,330	2,080	1,230	754	1,160	674	460	420	391
17	994	1,440	1,610	2,770	2,000	1,210	749	1,090	656	455	439	392
18	906	1,370	1,510	2,470	1,910	1,200	752	1,030	640	425	428	392
19	844	1,330	1,390	2,170	1,920	1,170	761	978	629	528	407	405
20	795	1,490	1,270	1,970	1,830	1,120	748	933	619	552	410	428
21	749	1,380	3,090	1,850	2,190	1,100	765	896	610	502	414	416
22	689	1,270	3,010	1,770	2,800	1,080	746	869	604	453	509	405
23	681	1,180	2,130	1,680	2,620	1,050	792	862	582	485	1,330	401
24	694	1,130	1,760	1,620	2,280	1,030	904	1,140	575	535	884	398
25	670	1,090	1,580	1,550	2,090	1,040	872	1,170	563	549	662	397
26	641	1,060	1,440	1,480	1,990	1,030	885	1,040	546	539	574	435
27	3,080	1,040	1,340	1,400	1,860	1,010	868	970	542	474	564	416
28	4,410	1,010	1,260	1,350	1,740	989	878	901	529	486	498	419
29	2,820	970	1,180	1,280	------	964	878	856	558	521	511	420
30	2,180	942	1,130	1,280	------	941	858	826	539	981	500	405
31	1,750	------	1,190	1,230	------	962	------	802	------	786	486	------
TOTAL	37,294	40,642	39,496	71,480	54,510	38,406	24,616	31,526	21,546	16,179	16,790	12,702
MEAN	1,203	1,355	1,274	2,306	1,947	1,239	821	1,017	718	522	542	423
MAX	4,410	2,410	3,090	11,900	3,750	1,660	904	1,670	1,090	981	1,330	478
MIN	569	942	802	1,130	1,140	941	746	763	529	425	407	391
CFSM	1.04	1.17	1.10	1.98	1.68	1.07	.71	.88	.62	.45	.47	.36
IN.	1.19	1.30	1.26	2.29	1.75	1.23	.79	1.01	.69	.52	.54	.41
AC-FT	73,970	80,610	78,340	141,800	108,100	76,180	48,830	62,530	42,740	32,090	33,320	25,190

CAL YR 1970 TOTAL 478,940 MEAN 1,312 MAX 16,800 MIN 451 CFSM 1.13 IN 15.33 AC-FT 950,000
WTR YR 1971 TOTAL 405,195 MEAN 1,110 MAX 11,900 MIN 391 CFSM .96 IN 12.97 AC-FT 803,700

PEAK DISCHARGE (BASE, 9,000 CFS).--JAN. 14 (1000) 14,200 CFS (18.10 FT).

07071500 Eleven Point River near Bardley, Mo.

LOCATION.--Lat 36°38'55", long 91°12'03", in NE¼SE¼ sec.17, T.23 N., R.2 W., Oregon County, on downstream side of right pier of main truss of bridge on U.S. Highway 160, 7 miles southwest of Bardley, 7.5 miles upstream from Fredericks Fork, and at mile 53.7.

DRAINAGE AREA.--793 sq mi.

PERIOD OF RECORD.--October 1921 to current year. October 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 410.84 ft above mean sea level. Prior to June 26, 1934, nonrecording gage at site 100 ft upstream at datum 0.06 ft higher. June 26, 1934, to Oct. 19, 1939, nonrecording gage, at present site and datum.

AVERAGE DISCHARGE.--50 years, 731 cfs (12.51 inches per year, 529,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,470 cfs Jan. 14 (gage height, 4.68 ft); minimum, 284 cfs Sept. 29, 30 (gage height, 1.76 ft).

Period of record: Maximum discharge, 40,000 cfs Apr. 14, 1927 (gage height, 18.74 ft, from floodmarks), from rating curve extended above 25,000 cfs; minimum, 152 cfs Jan. 27, 1956, Jan. 11, 1957; minimum gage height, 1.06 ft Sept. 6-11, 1925 (present site and datum).

Maximum stage known, 19.7 ft in August 1915, from floodmarks (discharge, 44,000 cfs, from rating curve extended above 25,000 cfs).

REMARKS.--Records good.

REVISIONS (WATER YEAR).--WSP 827: 1927-28, 1935. WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	684	493	500	627	861	574	605	690	423	337	320
2	376	653	488	492	607	832	564	597	742	416	336	320
3	367	626	483	522	607	802	552	581	770	409	342	319
4	362	602	471	739	637	772	545	570	796	406	349	316
5	358	582	489	801	861	756	544	571	740	406	341	315
6	355	564	518	743	853	758	539	571	682	403	336	313
7	364	551	524	694	818	735	534	691	630	398	335	318
8	367	537	518	667	771	708	529	813	604	389	333	313
9	439	654	515	655	730	695	527	750	596	385	331	309
10	425	849	512	643	702	709	519	722	572	384	328	308
11	400	788	504	622	700	714	515	792	557	388	327	307
12	388	741	496	599	811	723	514	902	547	383	323	303
13	406	698	482	855	1,030	727	515	930	539	378	321	302
14	755	675	470	2,210	1,000	729	509	891	528	374	319	302
15	785	642	473	1,690	961	748	503	837	525	372	318	300
16	654	619	524	1,390	908	741	503	791	514	370	315	296
17	587	607	613	1,280	878	713	504	752	502	366	313	295
18	548	599	627	1,200	842	700	502	723	492	363	312	295
19	522	601	615	1,080	839	702	498	695	485	376	311	303
20	505	671	583	983	826	682	497	663	483	364	309	312
21	488	640	578	938	815	667	498	639	486	357	308	299
22	477	615	579	898	939	658	496	624	478	354	321	295
23	471	580	575	857	1,030	641	555	619	470	361	370	292
24	470	559	558	821	1,010	629	743	700	463	374	375	290
25	457	549	547	791	998	624	758	824	455	366	346	304
26	465	546	543	762	989	617	717	716	448	357	337	296
27	867	539	534	721	945	607	693	671	443	348	331	294
28	1,040	520	527	699	889	603	667	666	437	349	327	289
29	883	508	517	686	------	595	640	648	430	349	323	287
30	805	499	510	674	------	581	626	631	433	352	322	284
31	739	------	510	651	------	574	------	614	------	340	321	------
TOTAL	16,501	18,498	16,376	26,863	23,623	21,603	16,880	21,799	16,537	11,660	10,217	9,096
MEAN	532	617	528	867	844	697	563	703	551	376	330	303
MAX	1,040	849	627	2,210	1,030	861	758	930	796	423	375	320
MIN	355	499	470	492	607	574	496	570	430	340	308	284
CFSM	.67	.78	.67	1.09	1.06	.88	.71	.89	.69	.47	.42	.38
IN.	.77	.87	.77	1.26	1.11	1.01	.79	1.02	.78	.55	.48	.43
AC-FT	32,730	36,690	32,480	53,280	46,860	42,850	33,480	43,240	32,800	23,130	20,270	18,040

CAL YR 1970 TOTAL 230,846 MEAN 632 MAX 5,590 MIN 300 CFSM .80 IN 10.83 AC-FT 457,900
WTR YR 1971 TOTAL 209,653 MEAN 574 MAX 2,210 MIN 284 CFSM .72 IN 9.83 AC-FT 415,800

PEAK DISCHARGE (BASE, 4,000 CFS).--NO PEAK ABOVE BASE.

07072000 Eleven Point River near Ravenden Springs, Ark.

LOCATION.--Lat 36°20'48", long 91°06'48", in SE¼SE¼ sec.30, T.20 N., R.1 W., Randolph County, on left bank at downstream side of bridge on State Highway 90, 0.9 mile downstream from Hincha Creek, 1.9 miles upstream from Kassis Creek, 6.6 miles northeast of Ravenden Springs, and at mile 21.2.

DRAINAGE AREA.--1,123 sq mi.

PERIOD OF RECORD.--October 1929 to September 1933, October 1935 to current year. Prior to October 1949, published as "near Elevenpoint." Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 291.98 ft above mean sea level. Prior to Nov. 21, 1938, nonrecording gage at same site at datum 0.04 ft higher. Nov. 21, to Dec. 11, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--40 years, 1,078 cfs (13.04 inches per year, 781,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7,120 cfs Jan. 14 (gage height, 11.80 ft); minimum, 399 cfs Sept. 30 (gage height, 2.76 ft).

Period of record: Maximum discharge, 37,600 cfs Nov. 17, 1958 (gage height, 20.83 ft), from rating curve extended above 23,000 cfs; minimum observed, 226 cfs Sept. 9, 1936 (gage height, 2.13 ft, present datum).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 877: 1930-33, 1936-38. WSP 977: 1933, 1937-39, 1942. WSP 1117: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	654	1,090	772	823	1,040	1,380	871	894	862	630	511	449
2	646	1,040	758	801	1,000	1,340	860	882	960	617	504	449
3	633	990	743	1,100	995	1,290	843	858	949	606	523	453
4	621	947	727	1,080	1,030	1,240	834	840	1,000	602	547	446
5	614	909	844	1,430	1,230	1,210	828	834	970	602	528	442
6	608	879	951	1,300	1,330	1,210	825	836	921	609	515	441
7	629	856	871	1,190	1,290	1,180	816	871	881	596	508	440
8	647	834	842	1,120	1,220	1,130	804	1,000	848	586	506	444
9	1,010	1,090	825	1,090	1,160	1,110	796	1,020	828	579	500	441
10	781	1,260	809	1,060	1,120	1,220	787	954	809	578	497	434
11	702	1,240	796	1,020	1,110	1,170	779	1,340	786	580	494	432
12	667	1,160	778	980	1,900	1,160	775	1,190	760	579	489	428
13	716	1,100	756	2,250	1,910	1,150	775	1,300	815	570	486	423
14	1,070	1,100	735	5,270	1,750	1,140	772	1,230	785	563	480	423
15	1,240	1,050	737	3,180	1,640	1,150	760	1,150	744	559	478	421
16	1,050	1,000	955	2,370	1,530	1,140	754	1,080	731	559	474	418
17	939	975	1,020	2,090	1,500	1,110	754	1,030	710	552	468	418
18	871	958	1,020	1,950	1,420	1,080	754	982	695	547	464	414
19	825	944	995	1,780	1,420	1,070	748	947	690	640	459	417
20	790	1,040	967	1,630	1,380	1,050	748	909	683	568	458	441
21	762	1,050	2,100	1,550	1,630	1,030	748	873	681	553	453	426
22	739	992	1,390	1,490	1,970	1,010	736	848	683	545	474	418
23	724	943	1,170	1,430	1,750	989	822	835	671	553	470	414
24	727	894	1,060	1,370	1,670	966	954	935	663	573	521	410
25	708	871	995	1,320	1,620	963	1,060	1,010	693	572	495	416
26	693	862	949	1,260	1,590	950	1,020	998	644	554	476	430
27	1,030	852	918	1,200	1,520	930	992	910	640	541	466	413
28	1,650	828	891	1,160	1,440	922	1,000	878	638	549	458	409
29	1,410	801	862	1,130	-------	911	951	865	629	619	455	406
30	1,270	785	841	1,110	-------	889	924	849	656	716	453	404
31	1,170	-------	845	1,080	-------	877	-------	833	-------	523	451	-------
TOTAL	26,596	29,340	28,900	48,414	40,165	33,967	25,090	29,981	22,983	18,020	15,059	12,820
MEAN	858	978	932	1,562	1,434	1,096	836	967	766	581	486	427
MAX	1,650	1,260	2,100	5,270	1,970	1,380	1,060	1,340	1,000	716	547	453
MIN	608	785	727	801	995	877	736	833	629	523	451	404
CFSM	.76	.87	.83	1.39	1.28	.98	.74	.86	.68	.52	.43	.38
IN.	.88	.97	.96	1.60	1.33	1.13	.83	.99	.76	.60	.50	.42
AC-FT	52,750	58,200	57,320	96,030	79,670	67,370	49,770	59,470	45,590	35,740	29,870	25,430

CAL YR 1970 TOTAL 373,815 MEAN 1,024 MAX 8,700 MIN 478 CFSM .91 IN 12.38 AC-FT 741,500
WTR YR 1971 TOTAL 331,335 MEAN 908 MAX 5,270 MIN 404 CFSM .81 IN 10.98 AC-FT 657,200

PEAK DISCHARGE (BASE, 6,000 CFS).--JAN. 14 (0445) 7,120 CFS (11.80 FT).

07072500 Black River at Black Rock, Ark.

LOCATION.--Lat 36°06'15", long 91°05'50", in NW¼ sec.21, T.17 N., R.1 W., Lawrence County, on right bank 900 ft downstream from St. Louis-San Francisco Railway bridge at Black Rock, 3.7 miles downstream from Spring River, and at mile 68.3.

DRAINAGE AREA.--7,323 sq mi.

PERIOD OF RECORD.--June 1929 to September 1931, October 1939 to current year. Gage-height records collected in same vicinity since 1904 are contained in reports of U.S. Weather Bureau.

GAGE.--Nonrecording gage read twice daily, more often during rises. Datum of gage is 229.56 ft above mean sea level. Prior to Aug. 1, 1946, at site 900 ft upstream at same datum.

AVERAGE DISCHARGE.--34 years, 8,053 cfs (5,834,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 27,900 cfs Jan. 14 (gage height, 17.5 ft); maximum gage height, 18.70 ft Jan. 15; minimum discharge observed, 2,380 cfs Sept. 19.

Period of record: Maximum discharge, 103,000 cfs Jan. 25, 1949 (gage height, 28.5 ft); minimum daily, 1,730 cfs in September, October, and November 1956.

Flood of Aug. 21, 1915 reached a stage of 31.9 ft, from records of U.S. Weather Bureau (discharge, 160,000 cfs).

REMARKS.--Records good. Flow slightly regulated by Clearwater Lake (Missouri), 189 miles upstream, since June 3, 1948 (capacity, 413,700 acre-ft). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 927: Drainage area. WSP 1211: 1930-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,200	8,770	4,970	6,770	7,670	14,100	5,560	5,660	5,040	3,460	3,460	2,640
2	4,950	8,130	4,850	6,620	7,180	13,900	5,440	5,520	5,120	3,330	3,160	2,630
3	4,770	7,510	4,760	6,530	6,850	13,500	5,310	5,380	5,480	3,200	3,150	2,680
4	4,620	7,010	4,650	12,700	6,710	12,800	5,200	5,250	5,610	3,150	3,260	2,720
5	4,470	6,640	4,480	13,200	7,210	12,200	5,110	5,160	5,470	3,140	3,310	2,660
6	4,370	6,360	4,670	12,000	7,440	11,500	5,040	5,100	5,230	3,120	3,240	2,650
7	4,350	6,130	5,060	10,600	7,500	10,800	5,000	5,060	5,010	3,110	3,130	2,610
8	4,730	5,940	4,830	9,860	7,620	10,200	4,950	5,080	4,870	3,090	3,040	2,580
9	7,140	6,290	4,750	9,310	7,640	9,740	4,910	5,290	4,820	3,090	3,030	2,550
10	7,060	7,710	4,670	8,900	7,360	9,750	4,870	5,270	4,770	2,970	2,980	2,520
11	5,940	7,790	4,550	8,600	7,170	9,760	4,850	5,630	4,680	2,950	2,930	2,500
12	5,170	7,670	4,570	8,370	9,220	9,510	4,820	6,080	4,500	2,930	2,900	2,480
13	5,140	7,600	4,540	9,430	13,100	9,320	4,800	6,670	4,330	2,920	2,880	2,520
14	7,390	7,500	4,470	23,800	12,200	9,110	4,770	7,410	4,230	2,910	2,830	2,540
15	7,420	7,410	4,330	19,700	11,400	8,870	4,770	7,480	4,150	2,900	2,790	2,460
16	8,060	7,250	4,810	17,800	10,900	8,600	4,760	7,340	4,110	2,890	2,760	2,410
17	9,680	6,890	6,080	16,600	10,500	8,310	4,750	7,050	4,090	2,880	2,730	2,440
18	8,550	6,620	6,430	15,700	10,300	8,010	4,740	6,690	4,070	2,870	2,700	2,430
19	7,250	6,460	6,310	14,900	10,600	7,680	4,730	6,330	4,050	2,960	2,670	2,430
20	6,170	6,550	6,190	14,100	10,800	7,370	4,720	6,060	4,000	3,250	2,600	2,470
21	5,580	6,620	6,870	13,500	11,200	7,090	4,710	5,830	3,960	2,960	2,520	2,450
22	5,230	6,440	11,900	13,000	15,900	6,840	4,700	5,590	3,940	2,880	2,540	2,440
23	5,040	6,210	11,000	12,600	16,100	6,640	4,690	5,470	3,920	2,870	2,730	2,550
24	4,920	6,000	9,670	12,100	15,600	6,470	4,900	5,820	3,890	3,000	2,910	2,510
25	4,780	5,840	8,720	11,600	15,300	6,340	5,320	6,150	3,870	2,970	3,000	2,520
26	4,620	5,710	8,030	11,000	15,200	6,230	5,590	6,120	3,820	2,950	2,930	2,540
27	5,520	5,560	7,730	10,300	15,000	6,100	5,840	5,980	3,690	2,930	2,850	2,500
28	8,090	5,370	7,450	9,600	14,400	6,000	5,990	5,800	3,600	3,020	2,780	2,470
29	8,700	5,240	7,160	9,000	------	5,900	6,000	5,590	3,570	3,340	2,720	2,450
30	9,160	5,130	6,950	8,540	------	5,780	5,880	5,360	3,530	4,280	2,690	2,430
31	9,250	------	6,840	8,120	------	5,670	------	5,130	------	4,020	2,660	------
TOTAL	194,880	200,350	192,330	364,850	298,270	274,090	152,720	182,350	131,420	96,300	89,900	75,780
MEAN	6,286	6,678	6,204	11,770	10,650	8,842	5,091	5,882	4,381	3,106	2,900	2,526
MAX	9,680	8,770	11,900	23,800	16,100	14,100	6,000	7,480	5,610	4,280	3,460	2,720
MIN	4,350	5,130	4,330	6,530	6,710	5,670	4,690	5,060	3,530	2,870	2,520	2,410
AC-FT	386,500	397,400	381,500	723,700	591,600	543,700	302,900	361,700	260,700	191,000	178,300	150,300

CAL YR 1970 TOTAL 2,726,620 MEAN 7,470 MAX 34,700 MIN 3,150 AC-FT 5,408,000
WTR YR 1971 TOTAL 2,253,240 MEAN 6,173 MAX 23,800 MIN 2,410 AC-FT 4,469,000

07073000 Strawberry River near Evening Shade, Ark.

LOCATION.--Lat 36°05'56", long 91°36'30", in NE¼NE¼ sec.27, T.17 N., R.6 W., Sharp County, near left bank on downstream side of bridge on U.S. Highway 167, 2 miles north of Evening Shade, 6.3 miles upstream from Piney Fork, and at mile 55.9.

DRAINAGE AREA.--225 sq mi.

PERIOD OF RECORD.--February 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 406.56 ft above mean sea level. Prior to July 23, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 205 cfs (12.37 inches per year, 148,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,330 cfs Jan. 14 (gage height, 14.54 ft); minimum, 8.7 cfs Sept. 17; minimum gage height, 3.50 ft Aug. 22.

Period of record: Maximum discharge, 31,000 cfs Jan. 24, 1949 (gage height, 26.59 ft), from rating curve extended above 16,000 cfs; minimum, 2.8 cfs Sept. 23, 1954.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	204	95	163	126	198	92	54	60	17	14	9.9
2	76	185	91	159	119	188	88	51	64	37	15	9.9
3	67	176	88	297	118	178	86	42	345	26	18	10
4	61	158	85	411	124	167	83	39	154	19	18	11
5	56	144	87	312	345	156	86	39	92	18	16	11
6	54	133	88	274	246	158	88	40	68	17	14	11
7	50	124	96	252	206	157	84	46	55	16	14	11
8	49	115	86	234	190	158	81	51	51	14	13	11
9	89	764	82	217	166	154	77	52	45	14	13	11
10	79	483	79	200	150	170	74	46	40	14	13	11
11	71	298	78	185	163	189	68	209	38	15	18	11
12	61	244	77	178	995	176	66	132	35	14	21	11
13	60	223	73	751	780	165	65	128	33	15	15	10
14	118	266	70	2,910	421	154	61	107	31	15	14	10
15	125	356	79	781	349	144	60	85	29	14	13	9.9
16	106	269	285	471	308	134	59	71	29	14	13	9.2
17	90	228	341	383	316	125	55	61	28	14	12	8.9
18	81	202	238	359	306	122	57	54	26	13	11	9.1
19	76	185	200	306	274	120	61	49	25	14	11	10
20	70	245	177	264	259	116	57	44	24	14	9.9	11
21	65	211	818	241	275	112	56	41	23	13	9.5	11
22	60	172	672	232	573	111	55	39	22	12	26	10
23	58	153	403	215	411	109	62	39	21	13	23	9.9
24	60	138	321	203	339	105	69	103	21	16	40	9.9
25	59	129	268	195	297	107	71	125	20	15	21	9.9
26	57	124	234	180	276	107	61	71	19	13	15	11
27	992	118	205	161	245	104	59	53	18	12	12	12
28	767	109	189	150	214	101	56	46	17	13	11	13
29	511	103	176	145	------	99	65	41	17	14	9.9	12
30	321	97	163	141	------	96	59	38	18	17	9.5	12
31	248	------	168	134	------	95	------	36	------	15	9.9	------
TOTAL	4,722	6,356	6,111	11,104	8,591	4,275	2,061	2,032	1,468	487	472.7	317.6
MEAN	152	212	197	358	307	138	68.7	65.5	48.9	15.7	15.2	10.6
MAX	992	764	818	2,910	995	198	92	209	345	37	40	13
MIN	49	97	70	134	118	95	55	36	17	12	9.5	8.9
CFSM	.68	.94	.88	1.59	1.36	.61	.31	.29	.22	.07	.07	.05
IN.	.78	1.05	1.01	1.84	1.42	.71	.34	.34	.24	.08	.08	.05
AC-FT	9,370	12,610	12,120	22,020	17,040	8,480	4,090	4,030	2,910	966	938	630

CAL YR 1970 TOTAL 65,638.0 MEAN 180 MAX 2,680 MIN 17 CFSM .80 IN 10.85 AC-FT 130,200
WTR YR 1971 TOTAL 47,997.3 MEAN 131 MAX 2,910 MIN 8.9 CFSM .58 IN 7.94 AC-FT 95,200

PEAK DISCHARGE (BASE, 4,000 CFS).--Jan. 14 (0930) 4,330 cfs (14.54 ft).

07073500 Piney Fork at Evening Shade, Ark.

LOCATION.--Lat 36°04'50", long 91°36'39", in SE¼NE¼ sec.34, T.17 N., R.6 W., Sharp County, on right bank 20 ft upstream from bridge on U.S. Highway 167, 0.8 mile north of Evening Shade, and at mile 5.8.

DRAINAGE AREA.--99 sq mi.

PERIOD OF RECORD.--February 1939 to current year. Prior to October 1962, published as Piney Fork Strawberry River at Evening Shade.

GAGE.--Water-stage recorder. Datum of gage is 420.62 ft above mean sea level. Prior to Oct. 5, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 89.1 cfs (12.22 inches per year, 64,550 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 812 cfs Jan. 14 (gage height, 6.66 ft); minimum daily, 2.3 cfs Sept. 8-18, 25-30.

Period of record: Maximum discharge, 17,500 cfs Jan. 24, 1949 (gage height, 23.42 ft), from rating curve extended above 11,000 cfs; no flow at times.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	112	50	82	51	86	34	18	17	8.5	5.6	3.7
2	87	113	47	77	48	83	33	17	23	7.5	5.1	3.4
3	75	99	44	130	48	84	33	16	32	5.6	9.5	3.4
4	68	87	42	342	52	80	32	15	27	4.6	15	3.2
5	61	78	43	188	63	75	31	15	19	5.6	9.5	3.0
6	56	72	44	150	55	72	31	15	18	11	8.0	2.9
7	54	67	41	126	53	74	30	22	16	6.6	7.0	2.9
8	59	63	38	115	50	65	28	23	15	5.6	6.6	2.3
9	114	190	37	108	48	61	27	18	14	4.6	5.6	2.3
10	71	129	36	101	47	73	27	17	12	4.0	4.6	2.3
11	60	105	36	94	49	69	27	64	11	5.0	15	2.3
12	56	105	36	88	264	65	25	43	9.5	4.4	26	2.3
13	61	99	33	194	209	62	23	44	8.5	4.0	8.5	2.3
14	138	159	31	423	157	59	23	37	12	3.4	7.5	2.3
15	96	162	37	224	136	55	22	31	11	2.9	7.5	2.3
16	78	131	144	179	117	53	22	27	9.5	2.9	8.0	2.3
17	72	119	113	162	131	51	23	25	9.0	2.6	8.5	2.3
18	67	108	91	143	120	53	23	22	8.5	2.6	9.5	2.3
19	64	101	82	123	112	51	25	19	8.0	3.4	7.5	3.8
20	59	127	72	108	101	48	21	18	9.2	3.7	5.6	6.1
21	54	95	180	104	117	47	20	17	8.2	2.9	3.7	4.3
22	50	85	209	99	221	46	20	18	7.3	2.6	13	2.9
23	48	77	160	91	158	44	26	17	7.1	4.3	18	2.6
24	53	69	127	89	135	42	27	57	6.6	15	9.5	2.6
25	53	68	113	84	124	42	23	40	8.3	10	7.0	2.3
26	48	65	99	77	120	44	21	22	7.3	5.6	5.6	2.3
27	365	62	92	68	104	42	20	19	6.4	4.6	4.6	2.3
28	274	59	84	65	92	41	19	17	5.6	4.6	4.6	2.3
29	213	55	78	64	------	39	19	16	6.3	7.0	4.1	2.3
30	161	53	72	61	------	37	19	14	7.2	10	3.7	2.3
31	132	------	78	56	------	35	------	13	------	7.0	3.7	------
TOTAL	2,950	2,914	2,389	4,015	2,582	1,778	754	756	359.5	172.1	257.6	83.9
MEAN	95.2	97.1	77.1	130	107	57.4	25.1	24.4	12.0	5.55	8.31	2.80
MAX	365	190	209	423	264	86	34	64	32	15	26	6.1
MIN	48	53	31	56	47	35	19	13	5.6	2.6	3.7	2.3
CFSM	.96	.98	.78	1.31	1.08	.58	.25	.25	.12	.06	.08	.03
IN.	1.11	1.09	.90	1.51	1.12	.67	.28	.28	.14	.06	.10	.03
AC-FT	5,850	5,780	4,740	7,960	5,910	3,530	1,500	1,500	713	341	511	166

CAL YR 1970 TOTAL 33,254.6 MEAN 91.1 MAX 2,450 MIN 7.3 CFSM .92 IN 12.50 AC-FT 65,960
WTR YR 1971 TOTAL 19,411.1 MEAN 53.2 MAX 423 MIN 2.3 CFSM .54 IN 7.29 AC-FT 38,500

PEAK DISCHARGE (BASE, 2,000 CFS).--NO PEAK ABOVE BASE.

07074000 Strawberry River near Poughkeepsie, Ark.

LOCATION.--Lat 36°06'37", long 91°26'59", in SE¼NW¼ sec.19, T.17 N., R.4 W., Sharp County, on right bank on downstream side of bridge on State Highway 58, 0.5 mile downstream from Hurricane Creek, 2.5 miles northeast of Poughkeepsie, and at mile 35.9.

DRAINAGE AREA.--476 sq mi.

PERIOD OF RECORD.--February 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 298.07 ft above mean sea level (Corps of Engineers bench mark). Prior to Dec. 10, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 504 cfs (14.38 inches per year, 365,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,900 cfs Jan. 14 (gage height, 10.59 ft); minimum, 49 cfs Sept. 17 (gage height, 1.16 ft).

Period of record: Maximum discharge, 52,000 cfs Jan. 24, 1949 (gage height, 29.30 ft), from rating curve extended above 27,000 cfs on basis of slope-area measurement of peak flow; minimum observed, 31 cfs Oct. 4, 1938.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 877: 1938. WSP 897: Drainage area. WSP 1211: 1938-39.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352	521	262	444	313	505	229	153	133	81	80	63
2	310	489	252	444	297	485	227	148	172	81	75	63
3	272	456	243	818	294	467	223	142	383	102	109	63
4	243	419	231	2,180	315	444	218	134	374	90	123	63
5	225	385	243	1,210	480	419	218	137	224	85	103	62
6	212	357	246	846	504	418	219	153	178	85	91	61
7	204	332	241	689	419	410	214	179	156	82	83	61
8	200	311	233	602	388	388	208	170	147	75	78	59
9	460	966	225	553	354	372	202	172	139	74	74	58
10	340	1,140	218	518	329	433	195	164	127	73	71	57
11	274	679	216	487	341	453	192	363	119	74	72	56
12	247	564	214	464	1,550	433	184	368	114	74	137	55
13	248	521	206	1,350	1,840	408	180	297	107	71	96	53
14	373	636	199	4,420	1,020	394	177	267	104	68	76	52
15	379	836	234	1,710	834	388	171	225	107	68	72	50
16	335	669	665	1,140	714	365	168	200	100	67	70	50
17	292	576	829	942	688	352	164	182	94	65	68	49
18	267	518	592	818	688	343	172	168	95	65	67	50
19	249	485	502	694	651	332	175	158	93	67	66	56
20	236	551	452	601	608	318	170	148	89	65	65	58
21	221	543	1,210	560	695	308	163	142	90	65	65	56
22	208	447	1,680	531	1,310	297	159	138	87	63	92	54
23	199	402	1,050	500	1,080	284	178	142	81	65	148	51
24	213	366	786	482	838	274	180	446	79	104	113	50
25	216	343	663	461	738	280	180	381	78	91	111	49
26	203	332	585	430	674	279	173	230	75	79	87	49
27	1,680	318	524	396	605	269	166	179	75	71	76	49
28	1,730	302	482	371	544	262	159	156	79	69	72	51
29	1,210	284	447	360	------	254	158	142	76	82	68	53
30	801	272	420	349	------	243	161	133	80	139	66	54
31	620	------	438	332	------	233	------	128	------	92	63	------
TOTAL	13,019	15,020	14,788	25,702	19,111	11,110	5,583	6,145	3,855	2,432	2,637	1,655
MEAN	420	501	477	829	683	358	186	198	129	78.5	85.1	55.2
MAX	1,730	1,140	1,680	4,420	1,840	505	229	446	383	139	148	63
MIN	199	272	199	332	294	233	158	128	75	63	63	49
CFSM	.88	1.05	1.00	1.74	1.43	.75	.39	.42	.27	.16	.18	.12
IN.	1.02	1.17	1.16	2.01	1.49	.87	.44	.48	.30	.19	.21	.13
AC-FT	25,820	29,790	29,330	50,980	37,910	22,040	11,070	12,190	7,650	4,820	5,230	3,280

CAL YR 1970 TOTAL 169,142 MEAN 463 MAX 5,430 MIN 74 CFSM .97 IN 13.22 AC-FT 335,500
WTR YR 1971 TOTAL 12'.057 MEAN 332 MAX 4,420 MIN 49 CFSM .70 IN 9.46 AC-FT 240,100

PEAK DISCHARGE (BASE, 7,000 CFS).--NO PEAK ABOVE BASE.

07074500 White River at Newport, Ark.

LOCATION.--Lat 35°36'22", long 91°17'19", in NE¼NE¼ sec.10, T.11 N., R.3 W., Jackson County, on right bank on downstream side of bridge on U.S. Highway 67 at Newport, 7.2 miles downstream from Black River, and at mile 257.6.

DRAINAGE AREA.--19,812 sq mi.

PERIOD OF RECORD.--September 1927 to September 1931 (published as "near Newport"), October 1937 to current year. Gage-height records collected at present site since 1885 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 194.09 ft above mean sea level. September 1927 to September 1931, nonrecording gage at site 2.8 miles downstream at datum 2.30 ft lower. Oct. 1, 1937, to Aug. 14, 1953, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--38 years, 22,210 cfs (16,090,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 43,000 cfs Jan. 21 (gage height, 18.83 ft); minimum, 4,200 cfs Sept. 22 (gage height, 0.13 ft).

Period of record: Maximum discharge, 343,000 cfs Apr. 17, 1945; maximum gage height observed, 35.9 ft Apr. 18, 1945; minimum discharge, 2,870 cfs Sept. 27-30, 1954.

Maximum stage since at least 1927, that of Apr. 18, 1945. Flood of Apr. 16, 1927, reached a stage of 35.6 ft, from records of U.S. Weather Bureau.

REMARKS.--Records good. Some regulation by Norfork Lake since 1943 (see sta 07059500), by Clearwater Lake (Missouri) since 1948 (capacity, 413,700 acre-ft), by Bull Shoals Lake since July 24, 1951 (see sta 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see sta 07053400), and by Beaver Lake since Dec. 26, 1963 (see sta 07049690).

COOPERATION.--Records furnished by Corps of Engineers, and reviewed by Geological Survey. Gage-height record collected in cooperation with the U.S. Weather Bureau.

REVISIONS.--WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20,400	26,100	18,100	26,600	26,000	32,100	13,100	12,000	12,300	10,700	7,080	5,840
2	18,500	23,700	18,900	24,500	22,900	33,900	12,000	11,200	14,000	9,880	6,350	6,870
3	18,800	22,900	18,700	25,100	22,700	37,600	11,900	10,000	16,200	7,900	6,020	8,410
4	18,300	23,900	19,500	32,700	20,900	37,800	12,300	9,670	16,000	7,580	6,760	9,460
5	15,700	25,100	20,800	33,000	21,000	37,700	11,400	10,200	16,300	6,530	7,890	9,650
6	16,100	25,300	21,900	35,600	19,600	36,900	10,100	11,300	18,500	6,080	7,060	8,490
7	16,900	24,800	21,800	33,600	20,400	32,700	11,700	10,800	18,300	5,690	6,420	7,660
8	13,600	24,600	24,200	31,900	18,700	26,000	13,800	11,200	12,800	7,120	5,720	8,790
9	15,200	26,100	24,400	29,500	17,500	22,800	12,200	11,000	14,400	9,970	5,440	14,100
10	16,000	29,000	25,700	24,800	20,000	31,700	11,300	10,400	12,500	12,700	5,290	15,500
11	17,200	28,600	27,600	23,100	19,900	32,000	10,600	10,100	10,700	9,820	7,590	13,000
12	15,300	27,000	30,100	22,200	24,400	31,300	9,440	13,200	11,200	7,750	11,100	14,200
13	12,900	25,800	28,800	20,600	31,700	30,300	9,330	16,800	12,300	6,810	10,000	9,300
14	17,300	27,200	28,700	28,100	33,900	27,300	9,580	18,200	10,600	9,900	8,280	6,890
15	21,400	27,400	27,500	31,300	33,200	19,400	11,400	17,100	9,650	12,000	10,600	6,280
16	25,200	24,100	31,800	38,600	32,000	18,400	11,400	17,200	10,800	9,830	8,730	7,340
17	26,100	24,700	33,700	41,800	31,500	24,300	11,600	14,300	12,900	9,740	6,680	7,390
18	25,200	22,200	34,400	42,300	30,400	24,400	11,800	15,000	13,400	9,460	6,670	6,010
19	21,600	20,000	34,400	42,200	31,200	24,400	10,700	19,500	13,600	8,320	7,670	5,330
20	19,600	20,500	32,600	42,700	31,600	24,600	9,350	17,200	15,300	7,600	9,300	4,770
21	22,100	20,500	33,900	42,100	31,600	21,900	9,450	14,400	10,800	6,370	11,700	4,410
22	21,600	19,600	38,500	42,100	36,600	14,500	12,300	14,500	8,780	5,970	12,700	4,520
23	21,700	17,800	37,900	42,600	38,900	14,000	12,200	14,300	7,990	6,220	10,600	5,640
24	22,200	18,900	37,300	41,800	40,100	18,300	11,400	13,500	9,550	6,920	9,270	6,370
25	18,000	21,800	35,300	41,300	40,000	20,700	11,400	14,200	10,200	6,350	15,600	6,620
26	14,800	20,400	32,800	39,900	38,400	21,100	10,900	19,400	14,700	5,830	13,700	6,610
27	18,500	18,500	31,200	38,800	39,800	20,600	10,800	21,700	13,000	5,590	13,400	5,460
28	31,300	18,500	30,500	37,700	37,400	18,400	12,500	20,500	10,100	6,310	10,800	4,540
29	38,500	17,300	29,800	37,100	-------	14,500	13,600	18,700	8,320	6,650	9,380	14,100
30	36,900	17,900	28,200	34,400	-------	13,500	12,600	17,600	9,460	6,640	7,100	17,700
31	30,900	-------	27,100	30,300	-------	13,200	-------	14,000	-------	7,210	5,670	-------
TOTAL	647,800	690,200	886,100	1,058.3M	812,300	776,300	342,150	449,170	374,650	245,440	270,570	251,250
MEAN	20,900	23,010	28,580	34,140	29,010	25,040	11,410	14,490	12,490	7,917	8,728	8,375
MAX	38,500	29,000	38,500	42,700	40,100	37,800	13,800	21,700	18,500	12,700	15,600	17,700
MIN	12,900	17,300	18,100	20,600	17,500	13,200	9,330	9,670	7,990	5,590	5,290	4,410
AC-FT	1,285M	1,369M	1,758M	2,099M	1,611M	1,540M	678,700	890,900	743,100	486,800	536,700	498,400

CAL YR 1970 TOTAL 7,443,530 MEAN 20,390 MAX 72,800 MIN 7,420 AC-FT 14,760,000
WTR YR 1971 TOTAL 6,804,230 MEAN 18,640 MAX 42,700 MIN 4,410 AC-FT 13,500,000

07075000 Middle Fork Little Red River at Shirley, Ark.

LOCATION.--*Lat 35°39'10", long 92°19'10", in SW¼ sec.20, T.12 N., R.12 W.*, Van Buren County, on right bank 0.5 mile downstream from Sugar Camp (or Weavers) Creek, 1 mile east of Shirley, and at mile 122.0.

DRAINAGE AREA.--294 sq mi.

PERIOD OF RECORD.--February 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 483.12 ft above mean sea level. Prior to June 6, 1939, nonrecording gage at site 70 ft upstream at same datum.

AVERAGE DISCHARGE.--32 years, 457 cfs (21.11 inches per year, 331,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 9,560 cfs Oct. 14 (gage height, 15.48 ft); minimum, 0.60 cfs Sept. 26-30; minimum gage height, 4.90 ft Sept. 20.

Period of record: Maximum discharge, 101,000 cfs Jan. 24, 1949 (gage height, 28.3 ft, in gage well; about 31 ft on nonrecording gage, from stage-relation curve), from rating curve extended above 60,000 cfs; no flow at times.

NOTE.--Maximum gage heights published prior to 1949 water year were referred to nonrecording gage.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	890	184	369	161	448	174	279	93	9.2	11	8.6
2	316	779	170	341	146	407	160	250	103	9.0	11	8.6
3	247	681	158	615	138	379	148	216	128	7.8	12	7.5
4	187	577	146	2,150	171	349	138	184	208	6.8	13	6.2
5	148	500	133	1,340	1,590	332	133	164	184	6.2	13	5.3
6	129	435	124	965	974	371	131	194	133	5.8	14	4.4
7	120	379	115	770	770	435	129	1,120	103	5.7	14	4.2
8	120	337	105	640	640	409	129	1,070	86	6.9	13	4.0
9	996	1,980	100	560	521	388	126	712	73	7.6	13	3.4
10	901	1,530	96	495	448	705	118	560	66	9.3	13	2.9
11	601	1,050	96	444	463	773	111	955	65	8.0	14	2.5
12	561	859	96	396	1,750	672	105	946	56	7.2	17	2.1
13	1,190	727	92	528	1,940	594	103	1,570	48	4.9	14	1.8
14	5,830	1,450	87	1,060	1,260	530	100	952	42	4.1	13	1.6
15	1,980	1,890	99	941	982	470	96	669	38	3.3	12	1.4
16	1,230	1,280	522	761	805	401	94	495	34	3.0	11	1.2
17	898	1,000	842	667	693	336	92	371	31	2.8	11	1.0
18	712	833	609	590	591	307	92	277	27	2.6	10	.90
19	590	739	504	508	558	289	94	216	27	2.5	9.5	.90
20	491	773	428	431	567	254	92	175	31	2.2	8.6	2.6
21	409	631	841	384	558	226	90	143	39	2.2	8.3	.80
22	341	539	1,190	354	1,730	210	87	120	35	2.2	9.6	.80
23	301	457	982	326	1,230	187	142	114	29	9.0	16	.70
24	369	379	789	316	948	170	247	400	24	11	24	.70
25	539	328	653	309	795	175	258	417	20	10	21	.70
26	467	305	551	277	703	184	206	256	18	8.6	20	.60
27	4,580	277	474	236	604	216	178	178	15	8.3	16	.60
28	4,330	250	413	209	508	247	156	138	14	9.2	14	.60
29	2,640	222	366	197	------	226	152	115	12	10	12	.60
30	1,550	200	332	187	------	200	200	101	10	13	9.8	.60
31	1,160	------	358	175	------	181	------	90	------	11	8.9	------
TOTAL	34,334	22,276	11,660	17,541	22,244	11,071	4,081	13,447	1,791	209.4	406.7	77.80
MEAN	1,108	743	376	566	794	357	136	434	59.7	6.75	13.1	2.59
MAX	5,830	1,980	1,190	2,150	1,940	773	258	1,570	208	13	24	8.6
MIN	120	200	87	175	138	170	87	90	10	2.2	8.3	.60
CFSM	3.77	2.53	1.28	1.93	2.70	1.21	.46	1.48	.20	.02	.04	.009
IN.	4.34	2.82	1.48	2.22	2.81	1.40	.52	1.70	.23	.03	.05	.009
AC-FT	68,100	44,180	23,130	34,790	44,120	21,960	8,090	26,670	3,550	415	807	154

CAL YR 1970 TOTAL 190,477.30 MEAN 522 MAX 6,740 MIN 6.0 CFSM 1.78 IN 24.10 AC-FT 377,800
WTR YR 1971 TOTAL 139,138.90 MEAN 381 MAX 5,830 MIN .60 CFSM 1.30 IN 17.61 AC-FT 276,000

PEAK DISCHARGE (BASE, 6,000 CFS).--Oct. 14 (0330) 9,560 cfs (15.48 ft); Oct. 27 (1400) 7,300 cfs (14.22 ft).

07075300 South Fork Little Red River at Clinton, Ark.

LOCATION.--Lat 35°35'29", long 92°27'20", in SW¼ sec.14, T.11 N., R.14 W., Van Buren County, near right bank on upstream side of bridge on U.S. Highway 65 at Clinton, 0.2 mile upstream from Archey Creek, and at mile 23.7.

DRAINAGE AREA.--145 sq mi.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 481.11 ft above mean sea level. Prior to Oct. 1, 1966, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 201 cfs (18.82 inches per year, 145,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7,720 cfs Oct. 27 (gage height, 16.07 ft); no flow July 17-22.
Period of record: Maximum discharge, 22,200 cfs Mar. 9, 1964 (gage height, 24.00 ft), from rating curve extended above 14,000 cfs; no flow at times.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WRD Ark. 1968: 1962, 1964.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	524	91	243	120	280	137	147	95	18	14	4.3
2	187	429	86	225	110	252	129	141	98	16	14	4.3
3	161	340	81	647	108	237	121	132	114	15	16	3.9
4	134	280	76	1,740	197	213	115	120	120	13	18	4.4
5	103	240	72	916	719	197	109	111	95	11	16	8.8
6	95	207	67	622	471	207	108	199	80	9.3	18	9.3
7	104	182	64	477	395	212	104	1,290	67	3.8	18	8.4
8	114	165	62	359	330	192	99	682	62	1.7	17	6.9
9	672	1,100	60	351	279	194	97	440	55	1.4	15	6.1
10	427	795	59	310	248	511	95	359	48	1.0	13	5.3
11	302	540	59	280	243	447	90	455	41	.80	12	4.6
12	396	422	59	252	919	390	86	439	36	.70	13	3.9
13	1,160	358	59	607	881	346	86	408	32	1.7	15	3.6
14	2,400	560	56	988	614	310	84	322	28	1.8	18	3.0
15	1,120	598	67	634	491	273	81	259	24	1.0	15	2.3
16	705	476	346	487	408	239	78	208	21	.70	12	2.0
17	496	394	387	420	379	211	77	174	19	0	9.8	1.4
18	379	334	307	361	332	199	77	147	18	0	10	.70
19	301	297	260	305	367	190	77	126	17	0	8.8	.50
20	245	280	231	266	374	171	75	109	17	0	7.2	.50
21	207	227	801	245	518	159	74	98	19	0	6.5	.50
22	176	196	1,020	228	1,120	150	72	90	21	0	6.9	.30
23	160	170	750	208	738	137	103	100	25	.40	28	.30
24	359	149	536	204	559	127	134	658	30	.60	28	.20
25	366	136	411	194	470	130	126	350	27	1.7	14	.30
26	322	130	334	174	426	140	117	234	24	4.3	9.8	.50
27	5,030	122	283	157	364	165	108	182	22	3.9	7.6	.50
28	2,670	114	248	147	310	167	101	152	21	11	6.9	.50
29	1,560	105	218	141	------	157	101	132	21	13	6.1	.50
30	1,010	98	198	137	------	147	134	115	19	18	5.4	.50
31	700	------	252	129	------	140	------	102	------	17	4.3	------
TOTAL	22,299	9,968	7,600	12,494	12,490	6,890	2,995	8,481	1,316	166.80	403.3	88.30
MEAN	719	332	245	403	446	222	99.8	274	43.9	5.38	13.0	2.94
MAX	5,030	1,100	1,020	1,740	1,120	511	137	1,290	120	18	28	9.3
MIN	95	98	56	129	108	127	72	98	17	0	4.3	.20
CFSM	4.96	2.29	1.69	2.78	3.08	1.53	.69	1.89	.30	.04	.09	.02
IN.	5.72	2.56	1.95	3.21	3.20	1.77	.77	2.18	.34	.04	.10	.02
AC-FT	44,230	19,770	15,070	24,780	24,770	13,670	5,940	16,820	2,610	331	800	175

CAL YR 1970 TOTAL 119,460.90 MEAN 327 MAX 5,640 MIN 5.2 CFSM 2.26 IN 30.65 AC-FT 237,000
WTR YR 1971 TOTAL 85,191.40 MEAN 233 MAX 5,030 MIN 0 CFSM 1.61 IN 21.86 AC-FT 169,000

PEAK DISCHARGE (BASE, 5,000CFS).--Oct. 27 (1500) 7,720 cfs (16.07 ft).

07075900 Greers Ferry Lake near Heber Springs, Ark.

LOCATION.--Lat 35°31'15", long 91°59'42", in SE¼ sec.6, T.10 N., R.9 W., Cleburne County, on State Highway 25 at Greers Ferry Dam on Little Red River, 2.5 miles northeast of Heber Springs, 5.5 miles upstream from Canoe Creek, and at mile 79.0.

DRAINAGE AREA.--1,146 sq mi.

PERIOD OF RECORD.--November 1961 to current year. Prior to October 1969, published as Greers Ferry Reservoir near Heber Springs.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Mar. 16, 1963, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 1,943,000 acre-ft Nov. 16 (elevation, 462.03 ft); minimum, 1,564,000 acre-ft Sept. 30 (elevation, 449.34 ft).

Period of record: Maximum contents, 2,286,000 acre-ft Feb. 5, 1969 (elevation, 472.24 ft); minimum since initial filling to bottom of power-pool level, 1,480,000 acre-ft Dec. 3, 1966 (elevation, 446.30 ft).

REMARKS.--Lake is formed by concrete-gravity dam. Storage for purpose of filling to power-pool level began on Mar. 30, 1962, and bottom of power pool was first reached Mar. 10, 1964. Capacity between elevations 461.0 and 487.0 ft is 934,000 acre-ft and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates....................	489.0	2,926,500
Top of designated flood-control pool.....	487.0	2,844,500
Top of designated power pool.............	461.0	1,910,500
Crest of gated spillway..................	453.0	1,668,000
Bottom of designated power pool..........	435.0	1,194,000
Bottom of lowest outlet..................	283.0	640

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

449	1,555	455	1,727	463	1,974
452	1,639	459	1,848		

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,742	1,916	1,863	1,776	1,685	1,662	1,665	1,668	1,734	1,696	1,665	1,634
2	1,741	1,917	1,856	1,777	1,674	1,658	1,665	1,669	1,734	1,696	1,663	1,632
3	1,741	1,914	1,848	1,790	1,666	1,650	1,666	1,669	1,733	1,694	1,666	1,631
4	1,742	1,910	1,837	1,799	1,667	1,644	1,668	1,670	1,732	1,694	1,665	1,629
5	1,734	1,907	1,834	1,799	1,664	1,641	1,667	1,669	1,733	1,694	1,667	1,629
6	1,729	1,906	1,831	1,798	1,661	1,645	1,668	1,675	1,734	1,693	1,668	1,627
7	1,723	1,907	1,825	1,793	1,656	1,648	1,667	1,680	1,735	1,690	1,668	1,625
8	1,725	1,911	1,819	1,788	1,644	1,644	1,668	1,687	1,735	1,687	1,668	1,622
9	1,725	1,918	1,815	1,788	1,638	1,642	1,668	1,690	1,735	1,686	1,667	1,620
10	1,728	1,921	1,810	1,791	1,634	1,644	1,669	1,693	1,734	1,685	1,665	1,617
11	1,731	1,921	1,807	1,787	1,631	1,647	1,669	1,697	1,733	1,684	1,664	1,616
12	1,732	1,921	1,806	1,780	1,641	1,648	1,669	1,703	1,732	1,681	1,663	1,615
13	1,748	1,922	1,806	1,778	1,649	1,651	1,666	1,707	1,732	1,677	1,662	1,612
14	1,777	1,932	1,801	1,782	1,654	1,656	1,663	1,709	1,731	1,674	1,661	1,609
15	1,786	1,940	1,801	1,780	1,652	1,658	1,660	1,712	1,729	1,671	1,660	1,608
16	1,792	1,940	1,802	1,780	1,648	1,659	1,658	1,714	1,728	1,669	1,660	1,607
17	1,796	1,938	1,801	1,781	1,643	1,657	1,658	1,714	1,724	1,667	1,658	1,606
18	1,800	1,937	1,797	1,775	1,644	1,662	1,659	1,715	1,722	1,665	1,655	1,605
19	1,802	1,936	1,795	1,768	1,647	1,661	1,658	1,714	1,721	1,665	1,653	1,606
20	1,804	1,930	1,795	1,761	1,650	1,661	1,659	1,714	1,720	1,664	1,651	1,604
21	1,806	1,929	1,798	1,754	1,658	1,662	1,656	1,714	1,718	1,662	1,651	1,600
22	1,807	1,927	1,803	1,746	1,663	1,664	1,659	1,713	1,716	1,660	1,653	1,598
23	1,808	1,916	1,805	1,736	1,664	1,661	1,660	1,720	1,714	1,667	1,651	1,592
24	1,812	1,906	1,805	1,730	1,661	1,657	1,661	1,726	1,710	1,666	1,649	1,590
25	1,815	1,898	1,808	1,723	1,662	1,659	1,662	1,729	1,708	1,667	1,648	1,590
26	1,818	1,895	1,808	1,718	1,661	1,659	1,663	1,731	1,706	1,665	1,646	1,589
27	1,867	1,888	1,806	1,709	1,665	1,661	1,664	1,732	1,704	1,664	1,643	1,582
28	1,891	1,880	1,798	1,701	1,669	1,663	1,664	1,732	1,703	1,667	1,642	1,575
29	1,900	1,875	1,791	1,693	------	1,663	1,666	1,733	1,700	1,667	1,641	1,571
30	1,904	1,870	1,784	1,694	------	1,664	1,667	1,733	1,698	1,667	1,638	1,566
31	1,910	------	1,776	1,695	------	1,663	------	1,733	------	1,665	1,636	------
MAX	1,910	1,940	1,863	1,799	1,685	1,664	1,669	1,733	1,735	1,696	1,668	1,634
MIN	1,723	1,870	1,776	1,693	1,631	1,641	1,656	1,668	1,698	1,660	1,636	1,566
(†)	460.99	459.71	456.64	453.92	453.02	452.84	452.96	455.19	454.04	452.91	451.88	449.38
(‡)	+168	-40	-94	-81	-26	-6	+4	+66	-35	-33	-29	-70

CAL YR 1970........................ ‡ +169
WTR YR 1971........................ ‡ -176

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

07076000 Little Red River near Heber Springs, Ark.

LOCATION.--Lat 35°31'02", long 91°59'50", in NE¼ sec.7, T.10 N., R.9 W., Cleburne County, on right bank 1,600 ft downstream from Greers Ferry Dam, 3 miles northeast of Heber Springs, and at mile 78.8.

DRAINAGE AREA.--1,146 sq mi.

PERIOD OF RECORD.--September 1927 to current year. *Monthly discharge only for some periods, published in* WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 261.78 ft above mean sea level. Prior to Dec. 15, 1938, nonrecording gage at site 2.2 miles upstream at datum 8.97 ft higher and Dec. 15, 1938, to Sept. 30, 1960, water-stage recorder at site 1.8 miles upstream at datum 10.03 ft higher.

AVERAGE DISCHARGE.--44 years, 1,734 cfs (1,256,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 8,540 cfs Feb. 12 (gage height, 16.49 ft); minimum daily, 22 cfs May 26.

Period of record: Maximum discharge, 117,000 cfs Jan. 25, 1949 (gage height, 46.53 ft in gage well and 46.9 ft from outside gage, site and datum then in use); no flow at times in some years.

Maximum stage since at least 1927, that of Jan. 25, 1949. Flood in April 1927 reached a stage of 44.0 ft, original site and datum (discharge, 78,900 cfs).

REMARKS.--Records good. Flow completely regulated since March 30, 1962, by Greers Ferry Lake (see sta 07075900). Some regulation Oct. 1, 1960, to Feb. 28, 1962, by construction of Greers Ferry Dam. A fish hatchery diverts about 20 cfs from Greers Ferry Lake and returns an equal amount below the station. water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers, and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	848	2,330	4,260	1,310	4,910	4,380	453	32	460	344	216	744
2	189	2,930	4,790	420	5,190	4,380	666	32	495	215	406	809
3	188	3,400	4,950	56	4,780	4,970	55	608	498	188	232	811
4	3,780	2,560	4,970	5,100	2,690	3,990	46	31	1,370	183	382	329
5	3,090	1,620	2,620	4,970	5,090	2,530	608	890	49	198	311	314
6	3,450	629	1,410	5,050	4,330	61	430	35	45	635	166	543
7	1,350	58	3,140	5,100	5,160	47	452	445	341	1,110	191	883
8	1,210	3,470	3,340	4,800	7,350	3,900	59	34	162	1,320	228	1,120
9	60	2,720	1,950	1,780	4,530	3,390	530	33	47	754	774	1,330
10	46	3,060	3,020	81	3,240	2,080	50	239	649	256	695	1,310
11	987	3,280	3,250	4,300	3,240	1,870	44	557	417	197	875	270
12	61	2,330	65	4,740	5,000	1,690	492	39	419	1,060	572	181
13	592	513	46	5,980	2,520	509	1,580	538	383	1,560	867	1,250
14	485	62	2,740	3,640	2,060	60	1,810	696	273	1,380	214	1,100
15	482	3,910	2,440	4,650	3,600	1,030	1,830	44	789	914	243	271
16	47	3,720	3,000	3,050	4,990	867	1,520	33	731	1,410	377	215
17	45	2,990	3,310	1,890	5,240	1,820	58	664	1,330	416	798	214
18	179	3,890	4,270	4,460	1,670	326	44	201	1,330	318	912	173
19	293	3,800	2,350	4,860	2,160	869	1,480	947	958	301	965	177
20	56	2,380	2,290	4,850	61	53	57	429	274	242	852	599
21	432	2,690	3,430	4,720	50	47	1,200	263	1,330	618	529	1,850
22	374	6,160	3,970	5,860	3,810	313	58	46	1,020	693	227	1,030
23	46	5,780	3,360	5,920	3,520	1,980	47	31	834	1,440	1,590	2,480
24	45	4,470	3,410	4,950	4,560	2,310	45	1,110	1,610	435	1,160	661
25	3,050	2,470	151	5,550	2,190	1,130	45	183	1,040	266	846	188
26	4,280	4,360	2,150	3,780	3,300	762	370	277	310	372	1,330	301
27	3,170	5,030	2,670	4,550	66	49	38	632	312	431	901	3,020
28	2,880	3,900	5,150	4,740	46	49	228	168	1,020	684	320	2,930
29	2,500	2,630	4,910	4,930	-------	1,060	32	53	710	749	245	2,680
30	324	5,640	5,190	71	-------	996	584	46	1,050	175	880	2,750
31	61	-------	5,460	47	-------	1,060	-------	261	-------	181	881	-------
TOTAL	34,600	92,782	98,062	115,805	95,353	48,178	14,911	9,597	19,856	19,045	19,185	30,613
MEAN	1,116	3,093	3,163	3,736	3,405	1,554	497	310	662	614	619	1,020
MAX	4,280	6,160	5,460	5,920	7,350	4,970	1,830	1,110	1,610	1,560	1,590	3,020
MIN	45	58	46	47	46	47	32	31	45	175	166	173
AC-FT	68,630	184,000	194,500	229,700	189,100	95,560	29,580	19,040	39,380	37,780	38,050	60,720

CAL YR 1970 TOTAL 641,110 MEAN 1,756 MAX 6,160 MIN 40 AC-FT 1,272,000
WTR YR 1971 TOTAL 597,987 MEAN 1,638 MAX 7,350 MIN 31 AC-FT 1,186,000

07076850 Cypress Bayou near Beebe, Ark.

LOCATION.--Lat 35°01'30", long 91°52'23", in SW¼SW¼ sec.28, T.5 N., R.8 W., White-Lonoke County line, on downstream side of bridge on State Highway 31, 2.1 miles downstream from Mill Creek, 3.2 miles south of Beebe, and 4.7 miles upstream from Pigeon Roost Creek.

DRAINAGE AREA.--166 sq mi.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 194.54 ft above mean sea level.

AVERAGE DISCHARGE.--10 years, 198 cfs (16.20 inches per year, 143,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,270 cfs Feb. 14 (gage height, 11.46 ft); no flow at times.
Period of record: Maximum discharge, 21,000 cfs Jan. 30, 1969 (gage height, 16.09 ft); no flow at times.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	81	13	239	50	87	78	49	9.7	.24	98	3.4
2	0	53	12	279	50	73	58	49	7.5	21	60	2.8
3	0	44	11	249	50	146	47	39	6.8	81	46	2.2
4	0	49	10	539	50	318	40	28	8.5	37	227	1.7
5	0	45	9.7	848	150	412	34	21	14	14	428	1.5
6	0	39	8.9	1,120	120	405	31	18	9.3	9.1	536	1.1
7	0	32	8.3	892	100	315	27	162	6.3	9.1	563	.65
8	1.3	25	11	715	120	277	25	440	5.4	4.5	414	.44
9	4.1	51	10	363	125	227	26	466	4.5	2.9	183	.30
10	.60	150	8.1	213	93	181	24	442	3.9	2.8	80	.24
11	.44	249	8.5	161	73	284	23	268	3.9	2.0	40	.16
12	2.8	231	12	143	267	353	20	209	3.1	1.2	27	.12
13	4.4	139	30	132	654	394	18	394	2.3	.80	23	.07
14	4.6	99	38	131	1,060	380	16	489	1.7	.52	19	.04
15	15	138	34	147	940	269	15	497	1.6	.34	13	.03
16	12	207	186	147	700	175	14	370	1.3	.24	9.3	.02
17	4.1	194	462	120	497	111	13	149	.95	.10	7.0	.01
18	1.5	129	497	95	262	76	12	63	1.6	.02	5.4	0
19	.44	85	436	85	173	62	12	38	1.6	0	4.4	0
20	.12	62	270	75	183	61	13	28	.87	0	3.4	0
21	0	49	218	70	247	52	13	21	.65	0	2.9	0
22	0	41	632	65	438	46	12	17	.48	0	2.5	0
23	0	34	940	60	533	41	155	14	.34	0	50	0
24	.02	30	1,050	55	511	38	502	12	.24	.56	254	0
25	.06	25	872	80	420	37	604	11	.16	.48	191	0
26	.16	20	725	75	241	76	650	37	.10	.30	80	0
27	133	18	909	70	151	114	508	63	.08	1.7	30	0
28	408	16	263	65	115	108	197	38	.14	3.5	17	0
29	389	15	168	60	------	95	83	25	.16	2.2	9.9	0
30	272	14	120	60	------	102	52	18	.22	15	6.1	0
31	167	------	140	55	------	97	------	12	------	86	4.4	------
TOTAL	1,420.64	2,364	7,708.5	7,408	8,373	5,412	3,322	4,487	97.39	296.60	3,434.3	14.78
MEAN	45.8	78.8	249	239	299	175	111	145	3.25	9.57	111	.49
MAX	408	249	1,050	1,120	1,060	412	650	497	14	86	563	3.4
MIN	0	14	8.1	55	50	37	12	11	.08	0	2.5	0
CFSM	.28	.47	1.50	1.44	1.80	1.05	.67	.87	.02	.06	.67	.003
IN.	.32	.53	1.73	1.66	1.88	1.21	.74	1.01	.02	.07	.77	.003
AC-FT	2,820	4,690	15,290	14,690	16,610	10,730	6,590	8,900	193	588	6,810	29

CAL YR 1970 TOTAL 69,589.95 MEAN 191 MAX 3,090 MIN 0 CFSM 1.15 IN 15.59 AC-FT 138,000
WTR YR 1971 TOTAL 44,338.21 MEAN 121 MAX 1,120 MIN 0 CFSM .73 IN 9.94 AC-FT 87,940

PEAK DISCHARGE (BASE, 2,000 CFS).--NO PEAK ABOVE BASE.

07077380 Cache River at Egypt, Ark.

LOCATION.--Lat 35°51'28", long 90°56'00", in NW¼SE¼ sec.12, T.14 N., R.1 E., Craighead County, on right bank on downstream side of bridge on State Highway 91, 1.0 mile southeast of Egypt, 2.2 miles northwest of Winesburg, and at mile 143.

DRAINAGE AREA.--698 sq mi.

PERIOD OF RECORD.--October 1964 to current year. Daily stages and results of discharge measurements for July 1937 to December 1940 and December 1944 to date are published in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 222.99 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--7 years, 743 cfs (14.46 inches per year, 538,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,360 cfs Dec. 23 (gage height, 17.75 ft); minimum, 33 cfs Sept. 30 (gage height, 3.11 ft).
Period of record: Maximum discharge, 5,920 cfs Jan. 6, 1966 (gage height, 21.88 ft); minimum, 21 cfs Nov. 14, 1964.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	941	166	1,010	203	1,530	173	98	195	78	278	122
2	132	675	149	824	183	1,700	162	96	191	95	190	129
3	105	485	135	707	172	1,810	150	92	474	74	502	168
4	79	361	123	1,980	175	1,780	145	87	622	71	1,600	135
5	60	286	113	2,250	245	1,640	135	84	341	85	1,430	126
6	50	233	108	2,040	246	1,430	128	84	175	110	943	108
7	60	197	102	1,810	246	1,320	124	151	166	101	588	97
8	162	167	96	1,580	222	1,150	120	140	196	76	349	84
9	1,110	355	91	1,300	195	996	116	108	532	70	207	81
10	1,450	638	86	1,120	177	1,300	110	98	592	69	152	80
11	1,080	586	84	1,040	158	1,480	107	162	344	79	141	75
12	686	490	96	974	791	1,260	105	438	184	108	362	70
13	619	394	105	960	1,870	1,070	102	806	128	117	206	64
14	1,020	866	100	1,610	1,730	890	101	848	106	95	126	67
15	944	1,190	112	1,850	1,510	892	100	632	99	76	92	68
16	626	852	1,030	1,780	1,280	677	101	390	89	72	85	73
17	396	605	1,680	1,640	1,150	498	102	243	76	114	80	64
18	275	454	1,470	1,420	1,160	419	101	177	75	99	78	57
19	207	353	1,200	1,230	1,110	374	99	144	103	80	75	54
20	170	693	958	1,070	1,230	328	98	119	78	69	72	53
21	147	781	1,730	950	1,490	298	99	100	114	69	70	55
22	130	723	3,160	857	2,750	270	97	88	189	76	80	66
23	113	673	3,350	747	2,900	243	112	90	145	83	132	56
24	116	590	3,220	622	2,670	222	119	310	98	115	172	49
25	109	464	2,920	509	2,300	215	113	895	76	167	164	48
26	90	358	2,420	429	2,040	218	114	1,030	72	166	131	46
27	593	290	1,940	363	1,830	219	105	926	70	127	108	45
28	1,910	242	1,560	307	1,660	208	97	620	69	106	87	40
29	1,850	209	1,280	271	------	198	92	384	69	104	82	38
30	1,610	185	1,090	246	------	185	97	278	75	240	81	34
31	1,280	------	1,080	225	------	179	------	225	------	347	84	------
TOTAL	16,946	15,336	31,754	33,721	31,693	24,999	3,424	9,942	5,743	3,338	8,747	2,252
MEAN	547	511	1,024	1,088	1,132	806	114	321	191	108	282	75.1
MAX	1,850	1,190	3,350	2,250	2,900	1,810	173	1,030	622	347	1,600	168
MIN	50	167	84	225	158	179	92	84	69	69	70	34
CFSM	.78	.73	1.47	1.56	1.62	1.15	.16	.46	.27	.15	.40	.11
IN.	.90	.82	1.69	1.80	1.69	1.33	.18	.53	.31	.18	.47	.12
AC-FT	33,610	30,420	62,980	66,890	62,860	49,590	6,790	19,720	11,390	6,620	17,350	4,470

CAL YR 1970 TOTAL 261,158 MEAN 716 MAX 3,460 MIN 40 CFSM 1.03 IN 13.92 AC-FT 518,000
WTR YR 1971 TOTAL 187,895 MEAN 515 MAX 3,350 MIN 34 CFSM .74 IN 10.01 AC-FT 372,700

07077500 Cache River at Patterson, Ark.

LOCATION.--Lat 35°16'10", long 91°14'15", in SE¼ sec.31, T.8 N., R.2 W., Woodruff County, at bridge on U.S. Highway 64 at Patterson, 10.9 miles upstream from Maple Slough, and at mile 77.2.

DRAINAGE AREA.--1,041 sq mi.

PERIOD OF RECORD.--October 1927 to September 1931, February 1937, August 1937 to September 1960, October 1965 to current year in reports of the Geological Survey. Monthly discharge only for some periods, published in WSP 1311 and WSP 1731. January 1947 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers, Memphis district. Gage-height records July 11, 1916, to Dec. 31, 1931, are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 182.96 ft above mean sea level. Prior to Oct. 3, 1966, nonrecording and recording gages at or within 1,000 ft of old U.S. Highway 64 crossing, 1.4 miles downstream as follows: Prior to 1931, nonrecording gage at present datum; January 1937 to Oct. 5, 1949, nonrecording gage; and Oct. 6, 1949, to Dec. 31, 1950, water-stage recorder at mean Gulf level, or 0.24 ft below mean sea level; Jan. 1, 1950, to Oct. 2, 1966, water-stage recorder at present datum.

AVERAGE DISCHARGE.--38 years (1927-31, 1937-71), 1,236 cfs (895,500 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 5,400 cfs May 2 (gage height, 10.59 ft); minimum, 23 cfs Nov. 17 (gage height, 2.71 ft).

Water year 1971: Maximum discharge, 3,930 cfs Dec. 29 (gage height, 10.02 ft); minimum, 56 cfs Sept. 30 (gage height, 3.31 ft).

Period of record: Maximum discharge, 13,200 cfs Jan. 24, 1937 (gage height, 13.21 ft, present datum); no flow Oct. 27-30, 1956.

Flood of Apr. 19, 1927, reached a stage of 16.1 ft, present datum, from floodmarks (discharge, 24,500 cfs), due to break in White River levee.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	52	1,190	3,190	330	216	951	4,490	283	577	80	119
2	63	43	805	3,800	391	198	810	4,740	277	571	76	106
3	56	44	610	4,090	495	491	678	4,550	292	511	75	101
4	53	45	466	4,260	563	1,350	675	4,340	321	447	71	118
5	50	40	365	4,090	609	1,780	866	3,900	343	369	70	161
6	55	39	314	4,070	776	2,140	1,100	3,460	384	299	71	240
7	61	36	299	3,910	1,030	2,650	1,060	3,210	413	267	112	372
8	57	34	279	3,850	1,280	3,030	968	2,860	446	242	207	638
9	48	34	274	3,490	1,320	3,180	803	2,470	468	327	701	789
10	54	33	312	3,070	1,330	2,750	624	2,020	445	340	2,290	731
11	115	33	378	2,560	1,420	2,330	513	1,690	423	295	2,500	622
12	249	35	499	2,000	1,600	1,850	446	1,520	414	243	2,520	488
13	431	33	595	1,560	1,520	1,550	371	1,340	392	211	2,650	378
14	559	33	597	1,330	1,410	1,390	312	1,150	368	199	2,470	301
15	691	32	519	1,150	1,340	1,330	269	1,040	312	197	2,010	244
16	742	28	424	972	1,510	1,420	244	952	260	189	1,470	209
17	750	32	350	809	1,510	1,630	230	879	232	171	1,140	179
18	767	63	287	713	1,340	1,910	209	866	221	146	814	146
19	723	112	244	662	1,200	1,820	213	799	219	120	663	119
20	652	160	201	659	977	1,710	259	795	241	118	580	101
21	530	236	170	659	803	1,830	316	737	294	122	476	95
22	450	434	144	659	624	2,100	442	717	362	117	373	231
23	365	957	125	654	509	2,130	570	675	416	111	314	1,190
24	297	2,120	107	611	404	1,850	707	661	476	106	311	2,200
25	243	2,880	100	568	333	1,640	1,600	655	532	96	360	2,810
26	187	3,100	97	500	281	1,520	3,480	617	573	90	349	3,170
27	141	2,860	104	423	243	1,410	3,640	580	605	90	310	3,350
28	109	2,500	155	374	221	1,310	3,690	511	615	89	256	3,220
29	90	1,950	749	347	------	1,220	4,060	447	615	85	211	2,870
30	71	1,540	2,030	326	------	1,120	3,970	373	611	84	179	2,330
31	62	------	2,810	325	------	1,040	------	328	------	80	146	------
TOTAL	8,791	19,538	15,599	55,681	25,369	51,855	34,076	53,372	11,851	6,909	23,855	27,670
MEAN	284	651	503	1,796	906	1,673	1,136	1,722	395	223	770	922
MAX	767	3,100	2,810	4,260	1,600	3,180	4,060	4,740	615	577	2,650	3,350
MIN	48	28	97	325	221	198	209	328	219	80	70	95
AC-FT	17,440	38,750	30,940	110,400	50,320	102,900	67,590	105,900	23,510	13,700	47,320	54,880

CAL YR 1969 TOTAL 586,797 MEAN 1,608 MAX 9,580 MIN 28 AC-FT 1,164,000
WTR YR 1970 TOTAL 334,566 MEAN 917 MAX 4,740 MIN 28 AC-FT 663,600

07077500 Cache River at Patterson, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,700	1,790	581	2,700	572	3,230	296	202	749	123	808	225
2	1,340	2,300	480	2,230	484	2,980	288	181	699	114	728	232
3	1,050	2,150	396	1,850	424	2,850	271	162	585	115	858	218
4	735	2,140	333	1,910	393	2,600	259	146	472	124	1,870	190
5	517	1,950	292	2,420	466	2,440	249	135	366	126	2,900	171
6	373	1,560	243	2,320	516	2,340	239	132	304	122	2,820	159
7	286	1,330	260	1,940	513	2,270	225	222	586	117	2,580	161
8	237	1,070	196	1,970	455	2,260	206	436	319	111	2,510	169
9	231	893	173	2,130	414	2,210	193	374	379	111	2,450	164
10	201	792	161	2,170	301	2,020	179	290	393	120	2,120	172
11	200	676	166	2,150	380	1,840	168	226	365	133	1,620	165
12	251	614	138	1,950	833	1,740	147	190	296	141	1,310	152
13	576	588	137	1,790	1,650	1,600	146	196	287	131	992	138
14	1,180	719	137	1,610	1,890	1,560	145	230	347	120	797	121
15	1,410	951	134	1,430	1,910	1,630	143	276	396	108	629	109
16	1,410	1,130	173	1,300	1,910	1,630	145	326	302	103	542	96
17	1,330	1,220	295	1,270	2,020	1,460	146	390	325	101	472	92
18	1,320	1,310	529	1,430	2,210	1,300	145	496	271	103	409	87
19	1,320	1,430	787	1,670	2,130	1,210	149	630	228	104	316	86
20	1,310	1,510	1,050	1,820	1,950	1,110	145	620	184	102	270	82
21	1,140	1,420	1,490	1,790	1,860	965	148	532	151	100	232	81
22	882	1,240	922	1,690	2,520	765	156	409	133	101	205	78
23	630	1,060	313	1,560	2,790	632	257	315	121	106	197	73
24	508	903	313	1,430	2,830	548	504	257	110	262	196	69
25	395	817	358	1,320	2,960	521	555	221	106	861	195	64
26	320	797	973	1,240	3,170	483	495	186	116	1,120	202	63
27	400	797	1,030	1,160	3,290	433	406	161	139	910	196	63
28	709	797	1,040	1,060	3,310	391	332	168	155	772	196	62
29	1,020	739	3,460	928	-------	365	273	262	152	702	204	59
30	1,210	672	3,460	808	-------	339	234	481	138	798	211	56
31	1,420	-------	3,850	653	-------	315	-------	713	-------	803	214	-------
TOTAL	25,611	34,965	23,757	51,679	44,231	46,017	7,244	9,563	9,234	8,964	29,247	3,657
MEAN	826	1,166	766	1,667	1,580	1,484	241	308	308	289	943	122
MAX	1,700	2,150	3,850	2,700	3,310	3,230	555	713	749	1,120	2,900	232
MIN	200	588	134	653	380	315	143	132	106	100	196	56
AC-FT	50,800	69,350	47,120	102,500	87,730	91,270	14,370	18,970	18,320	17,780	58,010	7,250

CAL YR 1970 TOTAL 374,971 MEAN 1,027 MAX 4,740 MIN 70 AC-FT 743,800
WTR YR 1971 TOTAL 294,169 MEAN 806 MAX 3,850 MIN 56 AC-FT 583,500

07077700 Bayou DeView at Morton, Ark.

LOCATION.--Lat 35°15'07", long 91°06'37", near corner of secs.4, 5, 8, and 9, T.7 N., R.1 W., Woodruff County, at bridge on U.S. Highway 64, 1 mile west of Morton, and at mile 39.6.

DRAINAGE AREA.--422 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. February 1939 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers, Memphis District.

GAGE.--Water-stage recorder. Datum of gage is 187.71 ft above mean sea level. Nonrecording gage prior to Nov. 8, 1949. At datum 0.26 ft below mean sea level prior to Jan. 1, 1952.

AVERAGE DISCHARGE.--32 years, 527 cfs (381,800 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 3,370 cfs May 2 (gage height, 17.99 ft); no flow Oct. 4-11, Oct. 24 to Nov. 18.

Water year 1971: Maximum daily discharge, 2,260 cfs Dec. 26; minimum daily, 3.2 cfs Sept. 29.

Period of record: Maximum discharge, 6,700 cfs Nov. 23, 1957 (gage height, 18.23 ft); maximum gage height, 18.40 ft Feb. 6, 1969; no flow at times in most years.

Maximum stage since at least 1932, 18.57 ft (present datum) Jan. 26, 1937.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	0	8.0	1,910	71	86	109	2,390	39	11	26	91
2	6.0	0	6.0	2,010	252	129	188	2,400	77	11	26	91
3	3.0	0	6.0	1,930	679	790	569	2,390	111	11	26	109
4	0	0	5.0	1,920	651	1,260	543	2,250	113	11	36	110
5	0	0	4.0	1,920	435	1,490	281	2,230	109	11	79	117
6	0	0	5.0	1,840	275	1,640	118	2,120	103	11	102	109
7	0	0	10	1,650	260	1,670	98	2,020	110	10	230	114
8	0	0	93	1,410	404	1,670	110	1,890	97	73	307	106
9	0	0	123	1,140	461	1,600	87	1,610	70	98	518	107
10	0	0	83	882	415	1,490	73	1,210	48	100	1,260	123
11	0	0	49	606	262	1,100	49	936	29	109	1,430	102
12	10	0	31	429	129	919	35	679	26	114	1,430	110
13	94	0	20	267	98	830	26	441	34	89	1,150	117
14	119	0	16	194	102	671	24	216	45	57	700	98
15	88	0	11	142	550	451	17	116	47	30	507	78
16	57	0	9.0	110	993	272	17	100	36	22	226	51
17	33	0	7.0	99	1,130	503	17	115	26	23	110	37
18	20	0	6.0	95	1,080	909	20	81	21	45	103	27
19	14	29	5.0	93	832	1,290	209	57	22	57	101	86
20	5.0	109	4.0	95	505	1,420	805	47	18	49	101	626
21	6.0	189	4.0	107	264	1,440	1,020	36	36	40	100	818
22	4.0	138	4.0	109	116	1,300	1,080	26	67	29	120	1,000
23	4.0	95	3.0	86	97	987	867	26	67	26	262	1,140
24	0	53	4.0	75	112	691	656	22	48	27	177	1,270
25	0	79	5.0	75	56	516	1,290	21	29	36	109	1,350
26	0	21	6.0	83	77	596	1,840	21	22	30	102	1,360
27	0	16	6.0	93	74	647	2,000	21	18	36	114	1,170
28	0	12	22	86	82	435	2,100	18	17	27	110	842
29	0	9.0	143	76	------	215	2,210	17	16	25	102	524
30	0	8.0	196	57	------	114	2,260	17	14	22	99	241
31	0	------	197	47	------	98	------	25	------	25	91	------
TOTAL	473.0	786.0	1,091.0	19,636	10,510	27,300	18,726	23,546	1,514	1,273	10,440	12,124
MEAN	15.3	26.2	35.2	633	375	881	624	760	50.5	41.1	337	404
MAX	119	189	197	2,010	1,130	1,670	2,260	2,400	113	114	1,430	1,360
MIN	0	0	3.0	47	71	86	17	17	14	10	26	27
AC-FT	938	1,560	2,160	38,950	20,850	54,150	37,140	46,700	3,000	2,530	20,710	24,050

CAL YR 1969 TOTAL 129,752.0 MEAN 355 MAX 4,050 MIN 0 AC-FT 257,400
WTR YR 1970 TOTAL 127,499.0 MEAN 349 MAX 2,400 MIN 0 AC-FT 252,900

07077700 Bayou DeView at Morton, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	1,330	30	1,110	12	1,330	88	50	51	4.9	552	130
2	109	994	28	961	6.6	1,030	99	36	50	5.4	420	126
3	102	782	27	803	12	902	99	27	58	7.6	481	112
4	72	591	27	1,120	37	856	84	22	65	8.4	1,120	101
5	40	360	27	1,380	131	851	64	18	61	7.4	1,760	90
6	26	171	27	1,510	107	802	53	26	52	6.6	1,980	73
7	22	111	27	1,500	156	744	43	224	56	6.9	2,030	59
8	24	105	27	1,150	236	650	35	395	47	[illegible]	2,040	44
9	99	144	27	833	318	503	34	362	43	13	1,990	39
10	546	588	23	650	215	466	29	232	41	12	1,820	34
11	578	701	23	558	151	577	27	136	37	12	1,530	28
12	372	598	33	537	747	576	22	89	29	33	1,130	28
13	363	420	104	529	1,390	566	18	360	21	45	916	28
14	723	535	119	525	1,710	590	17	362	17	31	685	27
15	881	935	107	543	1,880	511	14	236	18	21	526	23
16	760	1,220	380	471	1,900	413	14	126	26	17	376	23
17	404	1,240	948	368	1,860	313	14	69	23	12	267	22
18	227	987	1,160	298	1,470	229	14	37	17	9.9	190	18
19	112	677	1,230	238	1,140	175	14	26	35	10	139	14
20	110	469	1,000	185	1,000	141	15	23	32	10	108	12
21	118	209	904	151	892	115	60	20	15	11	86	10
22	101	140	1,590	115	1,440	92	100	20	41	13	97	9.6
23	91	106	1,890	91	1,700	71	405	21	93	20	152	9.4
24	76	111	2,100	97	1,860	62	795	25	67	420	200	7.6
25	72	111	2,220	100	1,920	62	671	34	27	834	204	6.1
26	83	84	2,260	89	1,990	74	412	67	15	975	187	4.9
27	374	71	2,240	78	1,840	109	260	70	9.0	771	139	4.5
28	1,040	53	2,140	60	1,650	133	155	71	5.9	581	124	4.4
29	1,300	50	2,030	45	------	127	86	60	5.1	539	112	3.2
30	1,510	49	1,670	29	------	110	62	53	4.5	521	91	4.0
31	1,530	------	1,340	20	------	88	------	62	------	599	79	------
TOTAL	12,037	14,030	25,766	16,144	27,690.0	13,262	3,803	3,340	1,039.5	5,569.1	21,463	1,096.7
MEAN	388	468	831	521	989	428	127	108	34.7	180	692	36.6
MAX	1,530	1,330	2,260	1,510	1,920	1,330	795	395	93	975	2,040	130
MIN	22	49	23	20	6.6	62	14	18	4.5	4.9	79	3.2
AC-FT	23,880	27,830	51,110	32,020	54,920	26,310	7,540	6,620	2,060	11,050	42,570	2,180

CAL YR 1970 TOTAL 176,982.0 MEAN 485 MAX 2,400 MIN 10 AC-FT 351,000
WTR YR 1971 TOTAL 145,240.3 MEAN 398 MAX 2,260 MIN 3.2 AC-FT 288,100

07077800 White River at Clarendon, Ark.

LOCATION.--Lat 34°41'08", long 91°18'55", in W½ sec.22, T.1 N., R.3 W., Monroe County, at St. Louis Southwestern Railroad bridge at Clarendon, 1.1 miles downstream from Cache River, and at mile 100.1.

DRAINAGE AREA.--25,497 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. Gage-height records since 1884 are contained in reports of Mississippi River Commission and U.S. Weather Bureau. Intermittent records of discharge since 1879 and daily discharges since Jan. 1, 1928 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 139.91 ft above mean sea level, or 140.02 ft above mean Gulf level. Prior to Sept. 16, 1970, nonrecording gage at same site and datum.

EXTREMES.--Water year 1970: Maximum discharge, 90,600 cfs May 7 (gage height, 29.2 ft); minimum, 6,900 cfs Nov. 13-14 (gage height, 8.7 ft).

Water year 1971: Maximum daily discharge, 47,100 cfs Dec. 31; minimum daily, 7,700 cfs Sept. 23.

Period of record: Maximum discharge, 299,000 cfs Apr. 23, 1945; maximum gage height, 39.10 ft Apr. 24, 1945; minimum discharge, 2,900 cfs Sept. 4, 1936.

Maximum stage since at least 1874, 43.3 ft Apr. 23, 1927.

REMARKS.--Some regulation by Norfork Lake since 1943 (see sta 07059500), by Clearwater Lake (Missouri) since 1948, by Bull Shoals Lake since July 24, 1951, 318 miles upstream (see sta 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see sta 07053400), by Greers Ferry Lake since Mar. 30, 1962 (see sta 07075900), and by Beaver Lake since Dec. 26, 1963 (see sta 07049690). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by the Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,100	8,400	11,300	28,700	14,600	16,400	30,200	61,800	34,800	14,900	13,400	14,800
2	11,100	8,700	10,900	31,100	14,700	15,800	29,500	68,600	32,900	14,700	14,900	15,100
3	10,600	10,100	11,400	33,100	14,700	17,300	28,300	78,300	31,100	15,300	16,200	15,000
4	11,000	9,700	11,500	34,600	15,200	22,100	27,600	84,300	29,600	16,300	16,700	14,900
5	11,400	9,600	10,800	35,000	16,400	26,400	26,900	87,900	28,500	17,400	16,500	15,000
6	11,500	9,200	10,200	34,800	17,900	28,500	25,900	90,100	26,500	17,900	15,700	15,500
7	12,100	8,600	11,300	33,700	19,000	30,600	24,900	88,800	26,400	17,900	15,400	15,700
8	11,600	8,200	12,400	32,800	15,500	32,200	24,000	86,800	25,400	17,500	15,900	15,600
9	11,400	8,100	12,400	32,300	19,200	33,300	23,000	84,600	24,100	17,100	17,700	15,300
10	11,200	7,800	12,700	32,300	18,900	33,700	21,900	81,200	23,200	16,200	23,000	14,900
11	10,100	7,500	12,600	32,400	18,500	33,400	21,400	79,000	22,200	15,500	27,100	14,800
12	10,000	7,200	12,200	32,500	18,400	32,700	21,000	75,900	21,000	15,800	29,000	14,600
13	10,800	6,900	12,100	31,700	18,300	31,800	20,800	72,400	20,200	16,000	30,200	14,500
14	10,300	6,900	12,400	30,500	18,300	31,100	20,400	69,000	19,600	15,800	30,900	14,300
15	10,900	7,000	13,700	29,300	18,600	30,800	19,900	66,300	18,700	14,700	30,700	13,600
16	11,300	7,200	12,800	28,400	19,900	30,100	19,500	64,900	17,900	14,100	29,800	12,800
17	11,400	7,500	12,100	27,700	20,500	29,500	20,000	63,500	17,400	13,300	28,000	12,600
18	11,100	8,800	11,300	26,800	20,900	29,400	21,200	61,500	17,300	14,300	25,900	12,500
19	10,900	10,400	10,500	25,200	21,000	30,300	22,800	60,000	17,500	14,700	24,300	12,300
20	11,000	12,200	10,800	24,100	21,000	31,300	24,300	58,100	17,600	14,400	22,900	12,500
21	10,700	13,400	11,700	23,200	20,900	32,000	26,300	56,100	17,700	13,700	21,300	14,400
22	10,600	14,100	12,000	23,100	20,400	32,600	29,100	54,200	17,500	12,900	20,700	17,100
23	10,000	14,300	12,000	23,900	19,700	33,000	31,700	51,700	16,900	12,300	21,100	19,000
24	9,300	14,000	11,800	25,100	18,900	33,500	34,200	49,100	16,400	11,800	21,300	20,300
25	9,300	13,200	11,800	25,900	18,000	33,700	37,000	47,200	16,100	11,600	20,500	21,400
26	9,300	12,100	11,300	25,600	17,200	33,800	39,700	44,800	15,800	11,600	19,300	22,400
27	9,800	11,100	10,800	24,100	16,600	33,400	42,800	42,600	15,600	11,700	17,700	23,200
28	9,600	10,600	11,400	21,600	16,300	33,100	45,700	40,800	15,400	11,300	16,200	24,200
29	9,600	10,700	13,600	19,100	------	32,400	49,400	39,200	15,300	11,100	15,300	25,200
30	9,000	10,900	18,700	17,200	------	31,600	54,000	37,600	15,100	11,100	15,000	26,300
31	8,900	------	24,400	15,600	------	30,800	------	36,300	------	12,100	14,800	------
TOTAL	326,900	294,400	384,900	861,400	513,500	926,600	863,400	1,982.3M	633,700	445,000	647,400	499,800
MEAN	10,550	9,813	12,420	27,790	18,340	29,890	28,780	63,950	21,120	14,350	20,880	16,660
MAX	12,100	14,300	24,400	35,000	21,000	33,800	54,000	90,100	34,800	17,900	30,900	26,300
MIN	8,900	6,900	10,200	15,600	14,600	15,800	19,500	36,300	15,100	11,100	13,400	12,300
AC-FT	648,400	583,900	763,400	1,709M	1,019M	1,838M	1,713M	3,932M	1,257M	882,700	1,284M	991,400

CAL YR 1969 TOTAL 13,558,000 MEAN 37,150 MAX 149,400 MIN 6,900 AC-FT 26,890,000

WTR YR 1970 TOTAL 8,379,300 MEAN 22,960 MAX 90,100 MIN 6,900 AC-FT 16,620,000

07077300 White River at Clarendon, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27,300	29,100	26,700	46,900	46,900	44,800	23,700	16,000	21,900	13,200	11,100	12,100
2	28,000	31,600	25,700	46,700	46,900	45,400	21,700	16,200	20,800	12,800	11,100	10,000
3	27,900	32,500	25,100	46,400	46,800	46,600	19,700	16,100	19,400	12,600	11,600	8,800
4	27,000	33,000	24,900	46,400	46,000	46,500	18,600	15,800	18,300	12,400	12,900	8,500
5	25,800	33,100	24,700	45,700	45,000	46,400	17,200	15,000	17,700	12,200	15,300	8,800
6	24,500	33,400	24,700	44,400	43,700	46,900	16,100	14,300	17,700	11,300	17,200	9,400
7	23,500	33,400	24,600	44,600	41,800	46,800	15,300	13,900	18,100	10,600	17,400	9,800
8	22,900	33,100	24,500	44,900	40,700	46,600	14,500	14,600	18,400	9,800	17,000	10,100
9	22,800	33,000	24,500	45,500	39,200	46,400	14,000	15,400	18,800	9,400	16,100	10,000
10	21,900	32,700	24,700	45,700	38,000	46,300	13,900	15,800	18,700	9,200	15,100	9,900
11	20,700	32,400	25,200	46,300	37,200	45,900	14,200	15,900	17,800	9,800	14,300	10,900
12	20,100	32,400	25,700	46,200	36,300	45,000	14,100	16,400	16,700	10,800	13,800	12,700
13	19,700	32,700	26,500	45,400	36,400	45,200	13,700	18,300	15,800	11,600	14,000	13,800
14	19,300	33,400	27,200	44,900	36,600	44,500	13,100	19,300	14,600	11,600	14,900	14,200
15	19,200	33,500	27,400	43,800	36,800	43,700	12,600	20,400	14,100	11,000	15,900	13,900
16	19,200	33,800	28,200	42,100	37,100	42,900	12,600	21,400	13,800	10,700	15,800	12,800
17	20,000	33,900	28,900	41,800	37,900	41,000	12,900	22,400	13,100	11,300	15,400	11,600
18	21,700	33,900	30,000	41,600	38,900	39,400	13,600	20,800	12,800	12,100	15,100	10,300
19	23,200	33,900	30,900	41,400	39,900	37,800	13,800	20,300	12,900	12,000	14,300	9,600
20	24,300	33,600	32,200	41,200	40,800	36,100	13,800	19,600	13,700	11,600	13,300	9,200
21	24,700	33,100	33,800	41,400	41,800	34,800	13,700	19,600	14,200	11,200	12,900	8,700
22	24,700	32,400	34,900	41,800	43,500	33,700	13,500	19,900	15,000	10,600	12,400	8,200
23	24,600	32,000	36,700	42,300	44,300	32,700	13,200	19,600	15,100	9,800	13,100	7,700
24	24,500	31,100	38,600	43,800	44,200	31,300	13,900	19,000	14,200	9,600	14,200	7,800
25	24,300	30,600	40,200	44,100	44,100	30,000	15,400	18,800	12,900	10,200	15,000	8,000
26	24,200	29,400	42,100	44,800	44,000	28,700	16,100	18,500	11,900	10,700	15,000	8,700
27	24,000	29,200	43,700	45,500	44,500	27,800	16,200	18,400	11,700	10,500	15,300	8,800
28	24,200	28,600	44,700	45,900	44,300	27,200	15,900	19,600	12,300	10,100	15,700	8,800
29	25,400	28,000	45,600	46,200	------	26,900	15,800	19,000	13,300	9,600	15,800	8,800
30	27,000	27,500	46,100	46,900	------	26,200	15,700	21,900	13,600	9,800	15,100	9,300
31	28,200	------	47,100	46,900	------	25,300	------	22,200	------	10,600	13,800	------
TOTAL	734,800	960,300	985,800	1,381.5M	1,163.6M	1,208.8M	458,500	564,400	469,300	338,700	449,900	301,200
MEAN	23,700	32,010	31,800	44,560	41,560	38,990	15,280	18,210	15,640	10,930	14,510	10,040
MAX	28,200	33,900	47,100	46,900	46,900	46,900	23,700	22,400	21,900	13,200	17,400	14,200
MIN	19,200	27,500	24,500	41,200	36,300	25,300	12,600	13,900	11,700	9,200	11,100	7,700
AC-FT	1,457M	1,905M	1,955M	2,740M	2,308M	2,398M	909,400	1,119M	930,900	671,800	892,400	597,400

CAL YR 1970 TOTAL 10,054,000 MEAN 27,550 MAX 90,100 MIN 11,100 AC-FT 19,940,000
WTR YR 1971 TOTAL 9,016,800 MEAN 24,700 MAX 47,100 MIN 7,700 AC-FT 17,880,000

07077952 Big Creek near Poplar Grove, Ark.

LOCATION.--Lat 34°30'17", long 90°50'59", in SE¼NW¼ sec.24, T.2 S., R.2 E., Phillips County, near right bank on downstream side of bridge on county road, 600 ft downstream from small tributary, 0.9 mile northeast of Trenton, and 3.0 miles south of Poplar Grove.

DRAINAGE AREA.--464 sq mi.

PERIOD OF RECORD.--October 1970 to September 1971. Gage-height record and results of discharge measurements at site 8.7 miles upstream since August 1954 are contained in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 143.00 ft above mean sea level. Auxiliary water-stage recorder 8.7 miles upstream.

EXTREMES.--Current year: Maximum daily discharge, 1,130 cfs Feb. 25-27; maximum gage height, 22.22 ft Dec. 23; minimum discharge, 6.2 cfs Apr. 20 (gage height, 9.17 ft).

Maximum stage since at least 1954, 30.91 ft Feb. 1, 1957, present datum at auxiliary gage, from records of Corps of Engineers.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height record for period Oct. 1 to Nov. 24, furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	315	138	872	285	1,070	306	9.8	515	273	152	79
2	30	310	126	845	252	1,010	294	7.0	518	191	134	94
3	30	300	115	813	220	959	276	12	616	127	198	95
4	30	300	104	940	198	898	243	23	622	94	374	77
5	25	300	94	1,010	283	832	212	35	567	75	482	73
6	25	295	84	1,010	332	763	188	45	503	85	514	70
7	20	285	70	980	303	696	168	52	567	98	585	69
8	20	285	57	943	266	628	151	68	527	105	623	70
9	35	310	45	904	234	561	134	85	494	101	634	71
10	60	385	36	868	210	582	120	95	498	93	651	70
11	80	415	28	834	194	613	107	112	474	88	659	69
12	120	425	21	805	421	587	91	321	412	83	656	68
13	175	405	16	777	797	646	75	699	329	80	644	66
14	280	385	13	747	890	706	62	887	259	78	621	65
15	270	375	10	718	886	706	49	941	327	74	593	63
16	230	355	13	686	857	694	38	945	496	70	563	62
17	190	330	41	656	829	681	28	939	410	64	531	61
18	180	310	92	627	799	676	20	928	288	58	499	60
19	180	285	108	598	792	728	12	914	196	51	465	58
20	205	265	133	566	841	721	12	892	136	45	425	57
21	210	250	524	532	866	682	129	857	130	40	381	54
22	220	250	695	503	986	636	123	810	150	35	334	53
23	220	250	782	507	1,080	587	127	759	104	32	288	55
24	225	225	951	573	1,110	523	184	718	80	35	239	69
25	295	205	968	609	1,130	505	185	716	73	61	197	93
26	315	177	959	591	1,130	578	145	659	72	68	167	107
27	310	164	947	533	1,130	552	108	595	91	48	145	109
28	300	157	938	464	1,110	492	69	562	213	45	126	102
29	340	152	923	399	------	440	35	542	180	36	117	90
30	345	146	902	352	------	404	19	522	281	106	104	76
31	330	------	888	317	------	354	------	513	------	182	90	------
TOTAL	5,320	8,611	10,821	21,579	18,431	20,510	3,710	15,262.8	10,128	2,621	12,191	2,205
MEAN	172	287	349	696	658	662	124	492	338	84.5	393	73.5
MAX	345	425	969	1,010	1,130	1,070	306	945	622	273	659	109
MIN	20	146	10	317	194	354	12	7.0	72	32	90	53
CFSM	.37	.62	.75	1.50	1.42	1.43	.27	1.06	.73	.18	.85	.16
IN.	.43	.69	.87	1.73	1.48	1.64	.30	1.22	.81	.21	.98	.18
AC-FT	10,550	17,080	21,460	42,800	36,560	40,680	7,360	30,270	20,090	5,200	24,180	4,370

WTR YR 1971 TOTAL 131,389.8 MEAN 360 MAX 1,130 MIN 7.0 CFSM .78 IN 10.53 AC-FT 260,600

07191220 Spavinaw Creek near Sycamore, Okla.

LOCATION.--Lat 36°19'57", long 94°38'24", in NE¼NW¼ sec.4, T.21 N., R.25 E., Delaware County, on right bank 1.8 miles upstream from Cherokee Creek, 4.8 miles northeast of Row, 6.5 miles southeast of Sycamore, and at mile 35.0.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 875 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 82.6 cfs (8.43 inches per year, 59,840 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,020 cfs Oct. 27 (gage height, 6.96 ft); minimum, 11 cfs Sept. 2-5, 16, 17.

Period of record: Maximum discharge, 12,000 cfs Apr. 30, 1970 (gage height, 14.95 ft); minimum, 1.2 cfs Aug. 9, 1964.

Flood of May 19, 1961, reached a stage of 15.61 ft, from floodmark (discharge, 15,000 cfs, from rating curve extended above 4,000 cfs at former station 1 mile upstream).

REMARKS.--Records good.

REVISIONS (WATER YEAR).--WSP 2121: 1965(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	252	90	62	81	203	67	93	80	28	19	12
2	127	306	88	62	78	180	66	87	73	31	19	12
3	114	330	86	88	76	160	65	81	68	34	19	11
4	101	289	83	242	74	145	65	76	62	36	19	11
5	90	250	82	306	74	134	66	73	57	37	18	12
6	84	216	78	248	73	132	67	69	53	37	19	12
7	78	192	76	206	72	126	69	67	51	36	20	12
8	315	182	74	172	70	120	71	64	49	35	21	12
9	794	199	73	148	68	117	71	62	46	33	21	12
10	468	192	72	131	67	114	69	61	44	32	21	12
11	344	179	72	118	66	111	68	59	43	31	20	13
12	273	166	69	106	67	107	66	58	41	29	19	13
13	215	153	68	127	68	105	65	57	40	27	18	13
14	174	151	67	277	69	104	64	55	38	26	18	12
15	150	156	66	308	70	101	63	54	37	25	17	12
16	132	162	69	273	71	98	61	52	37	24	17	11
17	117	163	73	236	71	96	60	51	36	23	17	12
18	107	156	74	202	71	93	59	49	35	22	16	12
19	103	148	75	172	73	90	59	48	34	22	16	14
20	98	141	74	154	74	87	63	47	33	21	15	14
21	93	132	73	141	108	84	69	47	32	20	15	15
22	87	123	72	130	295	81	71	61	31	20	15	16
23	107	114	71	122	379	79	84	152	30	20	14	16
24	200	109	69	114	321	77	132	374	29	19	14	17
25	319	104	68	109	290	75	160	343	29	19	14	18
26	373	101	67	103	280	75	147	254	28	19	13	19
27	886	100	66	99	260	74	129	193	27	19	13	20
28	643	96	64	95	230	72	115	151	26	20	13	19
29	480	95	63	91	------	71	105	120	25	20	13	19
30	375	93	62	88	------	69	99	100	25	20	13	18
31	297	------	62	85	------	68	------	87	------	20	13	------
TOTAL	7,890	5,050	2,246	4,815	3,596	3,248	2,415	3,145	1,239	805	519	421
MEAN	255	168	72.5	155	128	105	80.5	101	41.3	26.0	16.7	14.0
MAX	886	330	90	308	379	203	160	374	80	37	21	20
MIN	78	93	62	62	66	68	59	47	25	19	13	11
CFSM	1.92	1.26	.55	1.17	.96	.79	.61	.76	.31	.20	.13	.11
IN.	2.21	1.41	.63	1.35	1.01	.91	.68	.88	.35	.23	.15	.12
AC-FT	15,650	10,020	4,450	9,550	7,130	6,440	4,790	6,240	2,460	1,600	1,030	835

CAL YR 1970 TOTAL 55,046 MEAN 151 MAX 5,890 MIN 23 CFSM 1.14 IN 15.40 AC-FT 109,200
WTR YR 1971 TOTAL 35,389 MEAN 97.0 MAX 886 MIN 11 CFSM .73 IN 9.90 AC-FT 70,190

PEAK DISCHARGE (BASE, 2,500 CFS).--No peak above base.

07195000 Osage Creek near Elm Springs, Ark.

LOCATION.--Lat 36°13'19", long 94°17'18", in SW¼NE¼ sec.21, T.18 N., R.31 W., Benton County, on left bank 0.7 mile downstream from Little Osage Creek, and 3.2 miles northwest of Elm Springs.

DRAINAGE AREA.--130 sq mi.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1731.

GAGE.--Water-stage recorder. Altitude of gage is 1,052 ft (by barometer).

AVERAGE DISCHARGE.--21 years, 101 cfs (10.55 inches per year, 73,170 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,910 cfs Oct. 27 (gage height, 10.91 ft); minimum daily, 32 cfs Sept. 17.

Period of record: Maximum discharge, 22,500 cfs May 19, 1961 (gage height, 16.66 ft), from rating curve extended above 11,000 cfs on basis of slope-area measurement of peak flow; minimum, 4.7 cfs Sept. 4-6, 1954.

Flood of May 10, 1950, reached a stage of 16.7 ft, from floodmarks (discharge, 22,500 cfs).

REMARKS.--Records good. Low flow slightly regulated by operation of small lake at Cave Springs.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	315	133	96	102	194	92	83	128	98	46	34
2	101	498	131	95	101	187	90	80	122	89	44	34
3	95	343	129	119	102	179	86	75	115	72	53	34
4	86	318	126	137	110	169	89	75	110	65	53	34
5	81	284	124	137	112	164	95	78	102	62	51	35
6	84	260	119	131	105	174	90	78	96	63	54	35
7	83	239	113	124	104	159	90	78	93	66	57	35
8	381	251	113	120	98	148	89	78	93	65	51	35
9	606	346	115	117	96	150	86	74	92	63	44	34
10	245	260	113	113	98	154	83	74	89	59	47	33
11	199	236	115	109	104	146	78	74	87	51	50	33
12	184	225	112	110	115	144	72	75	83	53	50	35
13	169	212	107	251	107	137	75	75	75	59	48	37
14	162	242	102	290	101	133	77	75	75	56	48	37
15	146	227	117	209	98	129	75	75	77	57	44	35
16	135	207	146	184	101	128	75	77	75	59	44	33
17	128	202	128	172	113	126	74	74	74	57	47	32
18	119	194	122	162	110	124	71	75	72	50	48	34
19	120	192	117	154	169	122	68	93	69	50	46	35
20	119	189	110	148	137	119	74	81	66	54	44	37
21	115	182	109	139	278	117	83	75	65	50	44	38
22	113	172	112	135	416	112	78	381	68	50	43	38
23	202	157	110	131	284	110	101	360	69	59	39	38
24	554	154	109	124	245	110	101	774	66	56	43	38
25	290	152	104	120	281	107	93	336	65	50	44	38
26	1,060	150	98	120	254	104	87	251	62	47	43	39
27	2,270	144	96	115	222	99	87	207	57	51	41	40
28	586	139	96	113	204	98	84	179	54	57	40	44
29	420	135	98	112	------	93	83	159	60	57	36	46
30	350	133	98	112	------	93	84	141	104	54	34	46
31	297	------	99	107	------	96	------	129	------	50	35	------
TOTAL	9,607	6,758	3,521	4,306	4,367	4,125	2,510	4,539	2,463	1,829	1,411	1,096
MEAN	310	225	114	139	156	133	83.7	146	82.1	59.0	45.5	36.5
MAX	2,270	498	146	290	416	194	101	774	128	98	57	46
MIN	81	133	96	95	96	93	68	74	54	47	34	32
CFSM	2.38	1.73	.88	1.07	1.20	1.02	.64	1.12	.63	.45	.35	.28
IN.	2.75	1.93	1.01	1.23	1.25	1.18	.72	1.30	.70	.52	.40	.31
AC-FT	19,060	13,400	6,980	8,540	8,660	8,180	4,980	9,000	4,890	3,630	2,800	2,170

CAL YR 1970 TOTAL 55,598 MEAN 152 MAX 2,270 MIN 46 CFSM 1.17 IN 15.91 AC-FT 110,300
WTR YR 1971 TOTAL 46,532 MEAN 127 MAX 2,270 MIN 32 CFSM .98 IN 13.32 AC-FT 92,300

PEAK DISCHARGE (BASE, 3,000 CFS).--OCT. 27 (0045) 5,910 CFS (10.91 FT).

07195500 Illinois River near Watts, Okla.

LOCATION.--Lat 36°07'48", long 94°34'12", in NE¼ sec.18, T.19 N., R.26 E., Adair County, near right bank on downstream side of pier of bridge on U.S. Highway 59, 1.5 miles north of Watts, 4.5 miles downstream from Cincinnati Creek, and at mile 106.2.

DRAINAGE AREA.--635 sq mi.

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 893.78 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 533 cfs (11.41 inches per year, 386,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 25,200 cfs Oct. 27 (gage height, 20.48 ft); minimum, 88 cfs Sept. 15-18.

Period of record: Maximum discharge, 68,000 cfs July 25, 1960 (gage height, 25.96 ft), from rating curve extended above 51,000 cfs; minimum, 8.6 cfs Oct. 26, 1955, Sept. 19, Oct. 14, 1956.

REMARKS.--Records good. Some regulation at low flow by Lake Francis Dam, 0.8 mile above station. Since July 2, 1957, small diversion above station for municipal water supply for city of Siloam Springs, Ark.

COOPERATION.--Gage-height record, 21 discharge measurements, and computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	569	1,380	454	358	441	1,010	353	462	407	354	140	95
2	496	2,980	449	356	536	920	349	420	381	326	140	92
3	439	2,250	434	611	495	856	342	384	364	264	136	92
4	390	1,730	424	1,780	458	818	252	368	332	219	135	94
5	347	1,490	437	1,240	442	778	193	414	304	203	135	95
6	333	1,270	399	906	454	749	196	351	285	194	133	92
7	328	1,120	383	765	452	797	198	704	261	181	133	93
8	1,410	1,050	377	652	443	769	202	934	246	169	131	92
9	5,280	2,140	366	598	432	721	203	563	238	164	128	91
10	2,420	1,610	372	558	405	685	205	578	234	167	127	91
11	1,470	1,190	362	526	390	683	209	2,780	222	161	124	95
12	1,340	1,030	388	499	419	662	218	1,430	212	153	121	100
13	1,170	927	379	614	482	648	217	861	210	143	119	97
14	1,020	983	360	2,770	505	635	212	647	206	140	118	91
15	864	1,310	366	1,690	507	620	218	533	200	133	117	90
16	730	1,040	482	1,210	501	596	219	467	195	130	117	88
17	646	905	594	1,020	496	573	215	431	190	130	117	89
18	593	836	532	888	519	545	227	375	184	127	115	90
19	566	778	486	777	650	521	234	385	181	120	113	92
20	536	749	463	689	1,110	498	245	380	175	116	109	99
21	493	719	440	623	1,230	479	372	350	145	114	107	101
22	458	647	435	592	3,730	457	466	328	126	115	105	103
23	613	613	432	556	2,360	428	518	845	129	119	105	100
24	3,260	582	429	516	1,670	344	841	3,300	131	122	105	100
25	2,360	557	395	496	1,500	256	664	2,070	138	126	106	105
26	2,200	545	384	467	1,510	282	564	1,180	144	122	106	112
27	16,200	518	366	489	1,310	356	481	857	147	119	103	119
28	6,150	503	353	457	1,120	365	432	675	146	115	103	115
29	3,120	487	346	441	------	362	406	566	142	124	102	107
30	2,070	480	353	420	------	359	418	497	192	142	99	102
31	1,570	------	360	389	------	359	------	440	------	137	96	------
TOTAL	59,431	32,422	12,770	23,953	24,567	18,131	9,869	24,575	6,467	4,949	3,645	2,922
MEAN	1,917	1,081	412	773	877	585	329	793	216	160	118	97.4
MAX	16,200	2,980	594	2,770	3,730	1,010	841	3,300	407	354	140	119
MIN	328	480	346	356	390	256	193	328	126	114	96	88
CFSM	3.02	1.70	.65	1.22	1.38	.92	.52	1.25	.34	.25	.19	.15
IN.	3.48	1.90	.75	1.40	1.44	1.06	.58	1.44	.38	.29	.21	.17
AC-FT	117,900	64,310	25,330	47,510	48,730	35,960	19,580	48,740	12,830	9,820	7,230	5,800

CAL YR 1970 TOTAL 142,163 MEAN 389 MAX 16,200 MIN 13 CFSM .61 IN 8.33 AC-FT 282,000
WTR YR 1971 TOTAL 223,701 MEAN 613 MAX 16,200 MIN 88 CFSM .97 IN 13.11 AC-FT 443,700

PEAK DISCHARGE (BASE, 5,000 CFS).--OCT. 9 (1430) 6,350 cfs (11.16 ft); OCT. 27 (1415) 25,200 cfs (20.48 ft).

07195800 Flint Creek at Springtown, Ark.

LOCATION.--Lat 36°15'20", long 94°25'50", in NW¼ sec.7, T.18 N., R.32 W., Benton County, on right bank 20 ft downstream from State Highway 12, 0.8 mile southwest of Springtown.

DRAINAGE AREA.--14.2 sq mi.

PERIOD OF RECORD.--June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,173.47 ft above mean sea level.

AVERAGE DISCHARGE.--10 years, 10.5 cfs (10.04 inches per year, 7,610 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 502 cfs Oct. 26 (gage height, 6.81 ft), from rating curve extended as explained below; minimum, 2.8 cfs July 10 (gage height, 3.61 ft).

Period of record: Maximum discharge, 6,730 cfs Aug. 14, 1961 (gage height, 14.75 ft), from rating curve extended above 260 cfs on basis of contracted-opening measurements at 1,850 cfs and 6,730 cfs; no flow for part of July 9, 29, 30, Aug. 7, 1964, result of pumpage for irrigation above the gage.

REMARKS.--Records good. Some diversion for irrigation above gage.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	38	11	8.4	9.6	23	8.0	11	13	6.6	4.0	3.2
2	23	44	11	8.8	9.2	21	8.4	11	11	6.0	3.8	3.2
3	21	39	10	28	9.2	18	8.0	9.9	11	4.9	4.9	3.2
4	19	35	10	38	10	16	9.6	9.2	9.9	4.9	5.4	3.2
5	18	31	10	33	9.2	16	12	8.8	9.2	5.1	4.4	6.3
6	17	29	10	29	9.2	17	11	8.5	8.5	5.1	4.4	4.6
7	16	26	9.6	24	9.2	15	10	8.8	8.2	4.6	4.9	4.2
8	101	27	9.6	22	8.8	14	10	8.2	7.9	4.2	4.6	4.0
9	103	27	9.6	19	8.0	14	9.9	8.2	7.6	4.2	4.2	6.6
10	63	23	9.6	18	8.4	14	9.5	8.5	7.3	4.2	4.0	6.9
11	51	21	9.6	16	9.6	12	9.2	9.2	7.0	4.2	4.0	4.9
12	43	20	9.2	15	9.6	12	9.2	8.2	6.7	4.0	4.0	4.4
13	37	18	8.8	28	9.2	11	8.8	7.9	6.7	3.8	4.0	4.2
14	31	20	8.8	33	9.6	11	8.8	7.9	6.4	3.6	4.0	3.8
15	28	19	10	30	9.2	10	8.8	7.3	6.7	3.6	6.9	3.8
16	26	18	12	27	9.2	10	8.5	7.3	6.4	3.6	5.4	5.1
17	24	18	10	24	9.2	10	8.2	7.0	6.1	3.6	4.4	5.1
18	22	17	10	22	9.6	9.6	8.2	7.3	6.1	3.6	4.2	6.3
19	22	16	10	20	13	9.6	8.2	8.5	5.8	3.6	4.0	6.3
20	21	16	9.6	18	12	9.6	11	7.9	5.8	3.6	3.8	5.7
21	19	15	9.6	18	25	9.2	9.9	7.6	5.6	3.4	3.8	5.1
22	19	14	10	16	39	9.2	9.9	26	5.6	3.4	3.8	4.6
23	27	13	9.6	15	35	8.8	18	38	5.6	3.8	3.8	4.4
24	56	13	9.2	14	30	8.4	16	75	5.6	4.2	3.8	4.4
25	47	13	9.2	13	34	8.4	15	46	5.3	4.2	3.6	7.6
26	174	12	9.2	12	31	8.4	14	34	5.3	4.2	3.4	7.3
27	160	12	9.2	11	28	8.4	13	27	5.1	4.2	3.4	5.7
28	73	11	9.2	11	25	8.4	12	22	5.1	4.4	3.2	6.0
29	52	11	8.4	10	------	8.4	12	18	5.1	4.2	3.2	5.4
30	41	11	8.8	10	------	8.0	12	15	6.4	4.2	3.0	4.9
31	34	------	8.8	10	------	7.6	------	14	------	4.0	3.2	------
TOTAL	1,414	627	299.6	601.2	438.0	366.0	317.1	493.2	212.0	131.2	127.5	150.4
MEAN	45.6	20.9	9.66	19.4	15.6	11.8	10.6	15.9	7.07	4.23	4.11	5.01
MAX	174	44	12	38	39	23	18	75	13	6.6	6.9	7.6
MIN	16	11	8.4	8.4	8.0	7.6	8.0	7.0	5.1	3.4	3.0	3.2
CFSM	3.21	1.47	.68	1.37	1.10	.83	.75	1.12	.50	.30	.29	.35
IN.	3.70	1.64	.78	1.57	1.15	.96	.83	1.29	.56	.34	.33	.39
AC-FT	2,800	1,240	594	1,190	869	726	629	978	421	260	253	298

CAL YR 1970 TOTAL 6,815.8 MEAN 18.7 MAX 393 MIN 4.1 CFSM 1.32 IN 17.86 AC-FT 13,520
WTR YR 1971 TOTAL 5,177.2 MEAN 14.2 MAX 174 MIN 3.0 CFSM 1.00 IN 13.56 AC-FT 10,270

PEAK DISCHARGE (BASE, 260 CFS).--OCT. 8 (1915) 286 CFS (5.73 FT); OCT. 26 (2045) 502 CFS (6.81 FT).

07196000 Flint Creek near Kansas, Okla.

LOCATION.--Lat 36°11'54", long 94°42'30", in SE¼ sec.24, T.20 N., R.24 E., Delaware County, near left bank on downstream side of pier of bridge on State Highway 33, 6 miles southeast of Kansas, 6 miles downstream from Sager Creek, and at mile 2.8.

DRAINAGE AREA.--110 sq mi.

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 854.59 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 96.9 cfs (11.96 inches per year, 70,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,430 cfs Oct. 27 (gage height, 8.76 ft); minimum daily, 16 cfs Aug. 30, 31.

Period of record: Maximum discharge, 23,600 cfs Aug. 14, 1961 (gage height, 15.66 ft), from rating curve extended above 7,200 cfs; minimum daily, 0.6 cfs Oct. 11-13, 1956.

REMARKS.--Records good. Small diversion above station for irrigation.

COOPERATION.--Gage-height record, 25 discharge measurements, and computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	294	90	63	75	192	62	71	83	51	24	17
2	109	426	89	63	72	173	61	66	76	53	23	17
3	95	367	88	141	69	152	60	63	74	42	24	17
4	86	315	84	445	69	138	63	61	68	39	28	17
5	79	274	83	315	69	126	74	58	63	38	28	25
6	77	247	80	252	65	123	70	57	58	38	27	34
7	72	221	79	217	64	116	66	56	55	36	28	28
8	562	217	77	189	59	106	65	53	55	33	27	27
9	1,100	230	76	164	56	101	63	53	54	32	25	25
10	435	225	75	145	56	100	61	55	51	32	24	23
11	308	205	74	131	58	98	60	56	48	30	22	23
12	247	185	72	122	60	94	59	52	47	29	23	22
13	213	170	70	189	59	91	59	50	44	28	24	20
14	182	170	67	392	58	90	58	47	43	27	24	19
15	155	167	72	301	58	87	57	45	44	25	24	18
16	138	161	80	247	58	84	57	43	42	25	35	18
17	122	161	77	225	59	82	56	42	40	26	35	19
18	111	155	75	201	59	80	55	42	38	24	28	26
19	109	145	74	179	74	77	54	66	37	23	24	29
20	100	148	71	158	79	76	64	59	34	22	21	27
21	94	136	71	143	126	75	71	52	34	22	20	25
22	89	126	72	131	367	74	69	83	35	22	20	24
23	122	120	70	122	310	73	86	243	40	25	21	23
24	287	111	67	113	266	71	100	330	37	29	20	23
25	269	108	66	107	281	70	99	262	34	26	20	27
26	379	106	64	101	269	70	93	200	31	24	19	29
27	1,460	102	63	94	243	68	87	168	29	26	18	27
28	655	100	62	90	216	67	80	138	27	26	18	25
29	445	95	62	86	------	66	77	117	26	29	17	23
30	350	94	62	82	------	65	76	103	29	29	16	23
31	308	------	64	77	------	64	------	90	------	26	16	------
TOTAL	8,882	5,581	2,276	5,285	3,354	2,949	2,062	2,881	1,376	937	723	700
MEAN	287	186	73.4	170	120	95.1	68.7	92.9	45.9	30.2	23.3	23.3
MAX	1,460	426	90	445	367	192	100	330	83	53	35	34
MIN	72	94	62	63	56	64	54	42	26	22	16	17
AC-FT	17,620	11,070	4,510	10,480	6,650	5,850	4,090	5,710	2,730	1,860	1,430	1,390

CAL YR 1970 TOTAL 54,279 MEAN 149 MAX 4,240 MIN 13 AC-FT 107,700
WTR YR 1971 TOTAL 37,006 MEAN 101 MAX 1,460 MIN 16 AC-FT 73,400

PEAK DISCHARGE (BASE, 2,500 CFS).--No peak above base.

07196900 Baron Fork at Dutch Mills, Ark.

LOCATION.--Lat 35 52'48", long 94 29'11", on line between secs.21 and 22, T.14 N., R.33 W., Washington County, near right bank on downstream side of bridge on State Highway 59 at Dutch Mills, 2.2 miles downstream from Fly Creek, and 2.9 miles upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--46.0 sq mi.

PERIOD OF RECORD.--April 1958 to current year. Prior to October 1969, published as Barren Fork at Dutch Mills.

GAGE.--Water-stage recorder. Datum of gage is 986.47 ft above mean sea level.

AVERAGE DISCHARGE.--13 years, 33.9 cfs (10.01 inches per year, 24,560 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 15,400 cfs Oct. 26 (gage height, 13.24 ft), from rating curve extended above 2,900 cfs on basis of contracted-opening measurement at 12,900 cfs; minimum, 0.48 cfs Sept. 4; minimum gage height, 1.62 ft July 15, 18, 19, 20, 21, 22.

Period of record: Maximum discharge, 15,400 cfs Oct. 26, 1970 (gage height, 13.24 ft), from rating curve extended above 2,900 cfs on basis of contracted-opening measurement at 12,900 cfs; no flow at times in 1963, 1967.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CFS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	212	27	16	22	54	13	22	24	5.9	1.1	.66
2	30	238	26	19	21	51	12	19	19	4.0	.97	.69
3	23	134	25	175	21	50	12	16	18	2.9	1.3	.70
4	20	116	23	118	37	49	12	14	18	2.4	2.0	.61
5	18	96	22	67	40	49	15	14	14	2.5	1.6	1.4
6	19	83	20	54	33	51	14	165	13	2.8	1.8	.79
7	20	73	20	44	32	47	13	286	11	2.5	2.8	.73
8	541	176	19	36	29	42	12	73	10	1.8	2.3	1.1
9	235	156	19	34	30	40	11	58	9.9	1.7	1.5	2.5
10	99	99	19	33	31	41	11	791	9.6	2.3	1.1	1.8
11	78	81	23	31	44	36	11	281	8.6	2.1	3.8	1.3
12	77	71	21	30	72	34	9.9	116	7.5	1.8	4.4	1.2
13	61	67	19	377	53	32	9.9	75	6.7	1.5	1.6	1.0
14	50	276	18	205	47	30	10	56	7.2	1.2	1.2	.86
15	41	142	20	111	41	27	9.9	44	6.9	1.1	1.2	.83
16	33	100	31	82	37	25	9.8	36	6.0	1.1	1.1	.86
17	29	86	26	70	48	24	9.2	31	5.6	1.2	.90	1.5
18	26	73	23	60	43	22	9.4	27	4.7	1.1	.80	1.8
19	24	64	22	49	127	21	9.4	30	4.3	.86	.83	2.2
20	22	56	20	45	71	20	54	24	4.0	.84	.84	2.8
21	20	52	20	42	321	20	51	21	3.8	.81	1.1	2.3
22	18	46	23	39	225	19	31	28	3.7	.85	2.6	1.8
23	493	39	22	36	126	18	54	474	4.4	1.7	1.6	1.5
24	364	35	20	36	95	17	41	262	3.7	.90	1.3	2.0
25	128	34	19	34	97	17	29	82	3.1	.99	.91	6.1
26	2,700	34	17	30	83	17	24	52	2.8	1.2	.85	2.9
27	834	33	17	28	67	16	20	39	2.6	1.2	.81	2.2
28	302	31	16	27	60	15	17	32	2.4	2.4	.81	1.9
29	178	30	16	27	------	14	19	29	2.4	3.0	.81	1.7
30	130	28	16	26	------	14	29	24	3.9	2.6	.72	1.7
31	100	------	17	24	------	13	------	22	------	1.8	.69	------
TOTAL	6,749	2,761	646	2,085	1,953	929	582.5	3,243	240.6	59.05	45.34	49.43
MEAN	218	92.0	20.8	66.7	69.8	29.8	19.4	105	8.02	1.90	1.46	1.65
MAX	2,700	276	31	377	321	54	54	791	24	5.9	4.4	6.1
MIN	18	28	16	16	21	13	9.2	14	2.4	.81	.69	.61
CFSM	4.74	2.00	.45	1.41	1.52	.65	.42	2.28	.17	.04	.03	.04
IN.	5.46	2.23	.52	1.62	1.58	.75	.47	2.62	.19	.05	.04	.04
AC-FT	13,390	5,480	1,280	3,980	3,870	1,830	1,160	6,430	477	117	90	98

CAL YR 1970 TOTAL 22,990.70 MEAN 63.0 MAX 2,700 MIN .28 CFSM 1.37 IN 18.59 AC-FT 45,600
WTR YR 1971 TOTAL 19,258.92 MEAN 52.8 MAX 2,700 MIN .61 CFSM 1.15 IN 15.57 AC-FT 38,200

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10- 8	1800	7.45	2,540	5-10	1530	8.96	4,350
10-26	2100	13.24	15,400	5-23	2100	8.71	4,130

07246500 Arkansas River near Sallisaw, Okla.

LOCATION.--Lat 35°20'58", long 94°46'16", in SE¼SW¼ sec.9, T.10 N., R.24 E., LeFlore County, at downstream right abutment of bridge on U.S. Highway 59, 0.4 mile downstream from Robert S. Kerr Lock and Dam, 7.5 miles south of Sallisaw, and at mile 394.9.

DRAINAGE AREA.--147,757 sq mi, of which 22,241 sq mi is probably noncontributing.

PERIOD OF RECORD.--October 1947 to December 1970 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 413.42 ft above mean sea level.

AVERAGE DISCHARGE.--23 years (1947-1970), 26,080 cfs (18,890,000 acre-ft per year).

EXTREMES.--Maximum discharge during the period October to December 1970, 109,000 cfs Oct. 27 (gage height, 17.62 ft); no flow Dec. 6 (closure of lock and dam).

Period of record: Maximum discharge, 544,000 cfs May 27, 1957 (gage height, 34.80 ft); minimum observed, 161 cfs Oct. 12, 1956.

Flood of May 11, 1943, reached a stage of 37.90 ft.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs and power development and regulated by Robert S. Kerr Lock and Dam since September 1970. Flow diverted through locks and boat channel Dec. 1, 1970. Water-quality records for the current year are published in Part 2 for Oklahoma.

COOPERATION.--Gage-height records, 14 discharge measurements, and computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

REVISIONS.--WSP 1341: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER TO DECEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22,800	66,900	14,200									
2	22,200	71,800	6,150									
3	16,300	69,800	7,380									
4	9,260	54,200	3,680									
5	7,320	43,000	1,080									
6	6,310	38,700	0									
7	8,750	36,700	680									
8	18,100	33,300	1,920									
9	43,800	30,000	1,920									
10	43,400	12,000	1,920									
11	47,700	16,200	1,920									
12	45,800	20,900	1,920									
13	40,000	16,500	1,920									
14	35,400	20,100	1,560									
15	9,810	18,200	1,370									
16	16,100	15,500	1,370									
17	37,600	13,000	1,370									
18	39,100	14,300	3,040									
19	40,800	19,700	10,400									
20	36,500	13,900	1,920									
21	27,400	11,600	2,840									
22	14,800	7,870	5,580									
23	35,100	5,850	12,600									
24	61,000	4,860	9,260									
25	50,000	4,040	3,810									
26	74,000	4,180	3,810									
27	84,600	4,860	3,840									
28	60,500	7,240	3,810									
29	84,200	8,680	3,840		------							
30	82,500	2,580	3,810		------							
31	72,500	------	4,240		------		------		------			------
TOTAL	1,193.6M	686,460	123,160									
MEAN	38,500	22,800	3,970									
MAX	84,600	71,800	14,200									
MIN	6,310	2,580	0									
AC-FT	2,368M	1,362M	244,300									

CAL YR 1970 TOTAL 9,405,540 MEAN 25,770 MAX 107,000 MIN 0 AC-FT 18,660,000

NOTE.--NO GAGE-HEIGHT DEC. 1-31. DISCHARGE COMPUTED FROM LOCK AND GATE OPENINGS.

07247000 Poteau River at Cauthron, Ark.

LOCATION.--Lat 34°55'08", long 94°17'55", in NW¼SW¼ sec.16, T.3 N., R.31 W., Scott County, on right bank at downstream side of highway bridge at Cauthron, 2.9 miles downstream from Cross Creek, 7.8 miles downstream from Jones Creek, and at mile 109.0.

DRAINAGE AREA.--203 sq mi.

PERIOD OF RECORD.--February 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.53 ft above mean sea level. Prior to May 2, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 211 cfs (14.12 inches per year, 152,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,740 cfs Apr. 23 (gage height, 12.55 ft); minimum, 0.23 cfs Sept. 19 (gage height, 3.71 ft).

Period of record: Maximum discharge, 32,200 cfs May 20, 1960 (gage height, 23.76 ft); no flow at times in most years.

Flood in June 1935 reached a stage of 27.4 ft, from information by local resident.

REMARKS.--Records good. As of September 1971, flow from 74.8 sq mi above this station is controlled by 12 floodwater-detention reservoirs with a total combined capacity of 32,660 acre-ft below the flood spillway crests, of which 29,546 acre-ft is flood-detention capacity, 2,100 acre-ft is water-supply storage, and 1,014 acre-ft is sediment-storage capacity.

REVISIONS (WATER YEARS).--WSP 1037: 1939(M). WRD Ark. 1970: Drainage area.

DISCHARGE, IN CFS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	105	23	66	63	98	55	84	30	10	6.5	1.9
2	11	103	22	56	55	93	48	69	62	7.7	3.6	1.8
3	7.9	90	21	462	51	150	43	58	49	6.3	2.7	1.8
4	4.3	73	18	1,080	77	164	39	47	34	5.4	2.6	1.7
5	3.9	62	17	411	156	145	36	41	28	4.6	35	7.9
6	3.5	53	15	249	120	169	33	37	21	3.6	209	9.5
7	3.2	43	14	177	102	177	30	184	15	3.9	105	7.7
8	3.9	112	14	140	93	129	28	149	11	3.6	77	5.4
9	8.5	675	14	120	82	112	26	83	8.2	3.1	59	3.6
10	6.7	240	13	107	74	154	24	126	6.8	2.7	39	2.4
11	14	140	14	100	74	147	23	119	6.6	4.3	22	2.0
12	145	109	12	88	988	122	22	105	5.9	4.5	12	1.5
13	154	88	11	954	640	579	21	89	5.4	3.5	24	1.0
14	100	331	10	974	411	405	20	79	4.8	2.9	24	.76
15	64	324	11	481	303	240	20	63	4.4	2.2	17	.60
16	46	193	22	318	232	162	19	52	3.9	1.9	17	.45
17	33	147	66	249	190	125	18	42	3.5	1.8	12	.33
18	27	122	44	198	162	108	19	35	3.2	1.8	8.3	.29
19	25	103	31	152	172	93	21	33	3.1	2.0	6.8	.41
20	21	86	28	125	167	78	501	28	2.9	1.7	6.8	.53
21	18	71	394	110	180	70	646	25	100	1.3	6.5	.51
22	15	61	528	100	513	66	253	20	223	1.2	5.5	.53
23	69	53	381	94	279	61	2,060	17	64	2.9	4.6	.56
24	501	43	204	150	198	55	731	189	27	5.3	3.8	.50
25	252	39	145	159	167	64	382	120	13	3.8	3.4	.61
26	411	34	116	122	154	120	248	70	8.3	3.9	3.0	.65
27	1,170	32	98	98	133	98	181	59	8.3	13	2.4	.64
28	720	29	82	85	110	80	136	62	11	14	2.1	.68
29	324	28	69	80	------	80	108	50	8.8	7.8	2.0	.73
30	174	27	62	75	------	75	94	39	12	5.5	2.2	.69
31	122	------	66	70	------	63	------	30	------	7.9	2.3	------
TOTAL	4,475.9	3,616	2,565	7,250	5,946	4,282	5,885	2,214	792.1	144.1	727.1	57.85
MEAN	144	121	82.7	234	212	138	196	71.4	26.4	4.65	23.5	1.93
MAX	1,170	675	528	1,080	988	579	2,060	189	223	14	209	9.5
MIN	3.2	27	10	56	51	55	18	17	2.9	1.2	2.0	.29
AC-FT	8,880	7,170	5,090	14,380	11,790	8,490	11,670	4,390	1,570	286	1,440	115

CAL YR 1970 TOTAL 57,067.40 MEAN 156 MAX 4,900 MIN .30 AC-FT 113,200
WTR YR 1971 TOTAL 37,955.05 MEAN 104 MAX 2,060 MIN .29 AC-FT 75,200

07249400 James Fork near Hackett, Ark.

LOCATION.--Lat 35°09'45", long 94°24'25", in NW¼NW¼ sec.34, T.6 N., R.32 W., Sebastian County, near left bank on downstream side of bridge on State Highway 45, 1.7 miles south of Hackett, 2 miles downstream from Elder Branch, 2 miles upstream from small tributary, and 3.6 miles upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 sq mi.

PERIOD OF RECORD.--April 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 459.71 ft above mean sea level.

AVERAGE DISCHARGE.--13 years, 121 cfs (11.18 inches per year, 87,660 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,660 cfs Oct. 24 (gage height, 15.39 ft); minimum, 0.45 cfs Sept. 23, 24; minimum gage height, 0.63 ft July 22.
Period of record: Maximum discharge, 30,000 cfs May 14, 1968 (gage height, 23.00 ft), from rating curve extended above 20,000 cfs; no flow Aug. 16 to Dec. 12, 1963, Sept. 14-21, 1965.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CFS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	110	32	46	42	64	37	84	9.1	6.7	2.7	1.4
2	38	110	30	46	37	62	32	63	8.3	5.8	2.5	1.6
3	31	101	28	169	35	85	28	51	8.1	4.4	2.9	1.8
4	23	90	26	858	37	88	26	44	7.8	3.2	3.8	1.8
5	20	75	24	270	101	79	27	37	7.3	2.8	3.2	2.3
6	16	66	23	170	76	77	26	38	6.5	2.5	6.0	1.8
7	14	59	21	132	67	84	24	51	6.2	2.3	102	1.6
8	24	59	19	105	64	74	23	52	5.2	2.0	60	1.6
9	77	144	18	107	57	69	21	43	4.9	2.1	49	1.4
10	46	141	18	103	52	77	19	44	4.3	2.6	39	1.5
11	32	101	18	101	51	73	18	73	3.8	2.2	29	1.6
12	155	88	17	95	352	67	17	53	3.5	1.8	20	1.5
13	115	83	16	248	258	99	17	46	3.7	1.6	14	1.6
14	103	266	16	711	170	105	14	38	6.3	1.4	9.6	1.5
15	86	250	16	298	133	83	13	30	5.5	1.4	7.6	1.4
16	71	160	40	185	112	70	13	24	4.8	1.5	5.8	1.2
17	61	123	57	145	99	61	13	20	4.2	1.6	4.8	1.1
18	52	110	50	125	91	55	14	16	4.5	1.6	9.1	.90
19	43	97	43	104	94	49	16	15	13	1.6	18	.75
20	35	88	38	91	98	44	407	14	6.6	1.5	14	.83
21	28	77	89	84	98	40	335	13	5.1	1.2	9.3	.62
22	23	71	118	78	170	37	144	13	3.2	1.3	6.6	.55
23	951	62	105	73	124	34	697	24	2.6	2.6	4.4	.45
24	2,010	54	90	76	98	31	325	44	4.6	3.8	3.5	.52
25	656	49	77	77	90	51	107	23	6.6	3.7	2.7	.76
26	283	45	69	70	86	72	134	16	4.9	3.5	2.3	.90
27	1,660	42	61	62	77	62	106	15	3.6	3.2	2.0	.76
28	596	38	56	57	69	55	84	13	3.1	4.8	1.7	.75
29	271	36	52	54	-------	52	82	11	3.4	7.8	1.6	.67
30	175	33	48	52	-------	47	112	10	3.8	5.8	1.4	.71
31	132	-------	46	47	-------	42	-------	9.2	-------	3.8	1.3	-------
TOTAL	7,673	2,828	1,371	4,839	2,866	1,988	3,011	1,077.2	164.5	92.1	439.0	35.87
MEAN	248	94.3	44.2	156	102	64.1	100	34.7	5.48	2.97	14.2	1.20
MAX	2,010	266	118	858	352	105	697	84	13	7.8	102	2.3
MIN	14	33	16	46	35	31	13	9.2	2.6	1.2	1.3	.45
CFSM	1.69	.64	.30	1.06	.69	.44	.68	.24	.04	.02	.10	.008
IN.	1.94	.72	.35	1.22	.72	.50	.76	.27	.04	.02	.11	.009
AC-FT	15,220	5,610	2,720	9,600	5,650	3,940	5,970	2,140	326	183	871	71

CAL YR 1970 TOTAL 47,035.70 MEAN 129 MAX 4,960 MIN .10 CFSM .88 IN 11.90 AC-FT 93,300
WTR YR 1971 TOTAL 26,364.67 MEAN 72.2 MAX 2,010 MIN .45 CFSM .49 IN 6.67 AC-FT 52,290

PEAK DISCHARGE (BASE, 3,000 CFS).--NO PEAK ABOVE BASE.

07250000 Lee Creek near Van Buren, Ark.

LOCATION.--Lat 35°29'40", long 94°26'58", in SE¼ sec.21, T.12 N., R.27 E., Indian Meridian, Sequoyah County, Okla., on right bank 300 ft west of Arkansas-Oklahoma State line, 3.2 miles downstream from Webbers Creek, 6.8 miles northwest of Van Buren, and at mile 7.8.

DRAINAGE AREA.--426 sq mi.

PERIOD OF RECORD.--September 1930 to June 1937, October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 409.04 ft above mean sea level (Corps of Engineers bench mark). September 1930 to June 1937, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years (1930-36, 1950-71), 470 cfs (14.98 inches per year, 340,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 30,000 cfs Oct. 27 (gage height, 20.57 ft); minimum, 2.6 cfs July 22, 23 (gage height, .90 ft).

Period of record: Maximum discharge, 80,600 cfs May 6, 1960 (gage height, 30.30 ft); no flow at times. Flood of Apr. 15, 1945, reached a stage of about 35.0 ft, from floodmarks, (discharge, about 112,000 cfs).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1211: 1931(M). WSP 1441: 1935(M). WRD Ark. 1970: Drainage area.

DISCHARGE, IN CFS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	1,140	218	243	276	794	130	465	243	39	29	11
2	300	1,980	204	356	253	683	130	389	232	45	25	9.8
3	290	1,640	190	3,750	236	650	125	320	232	36	27	11
4	204	1,250	178	5,700	312	584	120	288	236	30	59	9.5
5	175	1,050	166	2,360	632	548	120	257	184	25	39	14
6	163	897	158	1,500	650	514	120	250	155	22	178	14
7	153	774	148	1,110	566	481	133	683	135	20	741	13
8	2,460	878	143	897	492	445	133	800	118	17	396	13
9	6,320	2,200	135	780	425	412	128	602	105	16	215	11
10	1,960	1,610	133	696	389	440	123	1,040	98	10	150	8.7
11	1,150	1,170	140	626	394	440	118	6,190	85	10	118	7.4
12	1,280	959	133	566	644	412	113	2,110	76	9.9	93	6.6
13	1,070	826	120	3,700	865	389	110	1,290	67	8.4	81	5.3
14	839	966	125	6,280	794	372	108	910	63	7.2	81	4.0
15	670	1,350	130	2,600	676	344	105	696	63	6.2	70	4.3
16	530	1,050	195	1,710	608	316	100	542	57	5.4	61	3.7
17	435	897	290	1,340	548	288	95	425	50	5.0	70	3.8
18	372	787	272	1,080	503	264	100	348	43	4.3	55	4.7
19	324	689	253	884	774	246	105	308	39	3.8	47	5.4
20	284	602	236	761	966	232	250	272	36	3.5	41	6.1
21	246	530	229	603	1,490	222	700	229	32	2.8	36	6.5
22	218	465	257	620	4,000	211	490	222	29	2.6	34	6.3
23	5,010	403	340	560	2,250	197	2,000	300	27	13	34	6.4
24	10,900	356	352	525	1,580	187	3,000	4,210	27	34	28	6.3
25	3,470	324	324	497	1,290	181	1,200	1,690	24	34	24	9.3
26	15,900	304	300	490	1,150	175	800	965	20	34	25	11
27	18,800	284	276	390	952	169	380	663	17	30	27	11
28	6,690	264	260	364	819	163	328	497	15	30	23	9.9
29	3,160	246	246	340	-------	158	352	394	12	41	19	9.9
30	1,990	229	239	324	-------	150	481	332	15	43	15	8.9
31	1,430	-------	243	304	-------	143	-------	276	-------	36	13	-------
TOTAL	87,937	26,120	6,561	42,004	24,490	10,770	12,165	27,951	2,539	640.1	2,816	252.4
MEAN	2,837	871	212	1,355	875	347	406	902	84.5	20.6	90.8	8.41
MAX	18,800	2,200	352	6,280	4,000	794	3,000	6,190	243	45	741	14
MIN	153	229	120	243	236	143	95	222	12	2.6	13	3.7
CFSM	6.66	2.04	.50	3.18	2.05	.81	.95	2.12	.20	.05	.21	.02
IN.	7.68	2.28	.57	3.67	2.14	.94	1.06	2.44	.22	.06	.25	.02
AC-FT	174,400	51,810	13,010	83,310	48,580	21,360	24,130	55,440	5,030	1,270	5,590	501

CAL YR 1970 TOTAL 278,610.08 MEAN 763 MAX 18,800 MIN 0 CFSM 1.79 IN 24.33 AC-FT 552,600
WTR YR 1971 TOTAL 244,239.98 MEAN 669 MAX 18,800 MIN 2.6 CFSM 1.57 IN 21.33 AC-FT 484,400

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-24	0115	15.01	16,500	1-14	0015	13.20	13,000
10-27	0445	20.57	30,000				

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W., Sebastian County, in Dam No. 13 control house on right bank, and at mile 308.9.

DRAINAGE AREA.--150,547 sq mi, of which 22,241 sq mi probably noncontributing.

PERIOD OF RECORD.--October 1927 to current year. Prior to October 1969, published as 07250500 Arkansas River at Van Buren. Gage-height records collected at Fort Smith (16.3 miles upstream) from 1879 to December 1955, are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage and gate position recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, and Oct. 1, 1934, to Dec. 20, 1969, recording gage at site 7.9 miles upstream at datum 372.36 ft higher.

AVERAGE DISCHARGE.--44 years, 29,920 cfs (21,680,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 136,000 cfs Oct. 27 (tailwater elevation, 389.07 ft); minimum daily discharge, 16 cfs Dec. 7.

Period of record: Maximum discharge, 850,000 cfs May 12, 1943 (gage height, 38.0 ft, from floodmark, site and datum then in use); maximum gage height, 38.10 ft, former site and datum, Apr. 16, 1945; minimum daily discharge, 16 cfs Dec. 7, 1970.

Maximum stage since at least 1833, that of Apr. 16, 1945, and maximum discharge since at least 1833, that of May 12, 1943. Flood in June 1833 reached a stage of 38 ft on Fort Smith gage, from records collected by U.S. Weather Bureau. Flood of Apr. 16, 1927, reached a stage of 35.0 ft, former site and datum, from information by local resident.

REMARKS.--Records good. Beginning Apr. 26, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1211: 1934-36. WSP 1561: 1954. WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21,100	74,200	8,310	7,000	13,700	29,600	5,300	10,400	7,040	23,900	15,700	8,130
2	22,700	73,000	10,400	7,830	12,400	28,000	3,860	13,300	16,900	24,600	11,000	10,500
3	16,100	75,300	6,420	18,000	19,700	30,300	3,140	18,800	23,100	12,300	8,350	12,800
4	11,900	65,000	4,380	44,600	16,900	35,600	3,760	12,300	36,600	14,200	8,140	11,000
5	7,690	96,600	2,890	59,600	17,900	35,400	3,590	9,780	33,400	19,700	7,920	6,820
6	6,710	49,200	1,120	42,000	16,400	26,800	3,560	8,350	16,900	12,000	16,900	2,750
7	5,030	42,000	16	55,000	6,000	26,200	3,710	15,000	16,600	10,900	10,800	52,700
8	21,600	46,000	1,930	50,000	9,320	31,700	2,780	8,690	19,900	21,200	9,610	56,700
9	67,700	40,400	4,340	55,600	28,400	33,700	5,600	6,220	21,000	28,900	10,200	34,700
10	67,700	34,200	4,880	37,000	16,900	38,500	6,280	7,090	16,500	23,600	10,500	33,300
11	67,200	21,600	3,830	25,900	15,900	37,500	6,800	13,200	22,900	22,100	17,900	17,000
12	68,000	21,100	4,890	24,600	17,300	27,100	5,590	12,100	30,500	13,000	17,900	16,500
13	63,700	21,100	3,940	28,700	15,100	22,400	5,080	10,600	31,900	12,900	9,910	16,600
14	62,300	27,200	4,120	52,500	8,090	28,900	7,490	10,700	35,000	25,700	14,400	12,000
15	26,900	50,100	5,280	56,300	7,070	30,300	7,650	9,750	36,600	19,000	8,650	13,000
16	15,000	26,300	3,210	24,000	9,020	5,640	9,060	6,220	34,900	18,200	8,580	9,800
17	32,400	17,100	3,900	22,300	21,000	9,490	8,470	7,300	35,300	20,500	7,670	3,920
18	38,600	16,200	5,780	23,200	18,600	20,500	3,130	6,020	35,600	21,200	8,270	5,150
19	39,100	22,200	14,500	28,500	30,560	25,800	3,170	10,000	26,400	25,400	10,400	19,500
20	39,600	30,300	2,810	35,900	21,900	12,200	12,200	11,200	24,800	18,600	12,000	14,900
21	29,100	16,700	6,680	18,600	16,800	11,200	18,700	9,120	29,100	15,700	17,600	16,700
22	14,600	11,900	7,650	14,100	24,900	14,000	10,700	5,760	22,000	13,800	13,700	17,400
23	35,100	8,750	11,700	13,900	45,600	17,100	19,400	8,930	13,700	18,200	19,200	17,800
24	81,700	7,360	13,100	16,500	37,700	13,300	21,400	19,200	17,100	33,100	13,400	20,300
25	72,100	6,140	6,700	6,680	35,400	14,400	8,080	26,300	30,400	20,900	21,400	20,400
26	88,900	3,180	5,930	12,000	37,200	23,900	8,05[illegible]	18,900	26,900	11,900	20,000	20,300
27	129,000	6,720	6,300	14,200	47,600	21,600	8,0[illegible]	19,900	23,400	15,900	15,500	20,100
28	89,600	7,900	6,520	9,100	35,000	16,100	7,050	27,700	19,200	14,000	16,600	14,100
29	80,900	13,500	7,110	12,200	------	9,570	8,350	19,100	26,000	13,700	11,500	19,800
30	87,600	4,210	6,890	13,000	------	9,680	9,330	16,600	28,000	16,600	8,020	16,900
31	77,400	------	7,940	11,700	------	7,900	------	6,710	------	20,800	8,080	------
TOTAL	1,360,880	823,360	180,666	776,910	599,700	691,380	230,150	376,940	750,640	579,390	380,200	537,570
MEAN	43,900	27,450	5,828	25,060	21,420	22,300	7,672	12,160	25,020	18,690	12,260	17,920
MAX	129,000	75,300	14,500	59,600	47,600	38,500	21,400	27,700	36,600	33,100	21,400	56,700
MIN	5,030	3,180	16	6,680	6,000	5,640	2,780	5,760	7,040	10,900	7,670	2,750
AC-FT	2,699M	1,633M	358,400	1,541M	1,190M	1,371M	456,500	747,700	1,489M	1,149M	754,100	1,066M

CAL YR 1970 TOTAL 10,455,695 MEAN 28,650 MAX 144,000 MIN 16 AC-FT 20,740,000

WTR YR 1971 TOTAL 7,287,706 MEAN 19,970 MAX 129,000 MIN 16 AC-FT 14,460,000

07252000 Mulberry River near Mulberry, Ark.

LOCATION.--Lat 35°34'37", long 94°00'55", in SE¼SW¼ sec.31, T.11 N., R.28 W., Franklin County, on left bank 0.6 mile upstream from Mill Creek, 5.7 miles north of Mulberry, and at mile 11.3.

DRAINAGE AREA.--373 sq mi.

PERIOD OF RECORD.--May 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 432.75 ft above mean sea level (levels by Corps of Engineers). Prior to Apr. 19, 1940, nonrecording gage at site 500 ft downstream at same datum.

AVERAGE DISCHARGE.--33 years, 529 cfs (19.26 inches per year, 383,300 acre-ft per year).

EXTREMES.--Current year : Maximum discharge, 13,600 cfs May 11 (gage height, 11.02 ft); minimum, 3.7 cfs Sept. 17, 18, 19 (gage height, 0.72 ft).

Period of record: Maximum discharge, 47,800 cfs Apr. 15, 1945 (gage height, 19.70 ft); no flow at times in 1939, 1943, 1953-54, 1956, 1964, 1967.

Flood of December 1927 reached a stage of 22.0 ft (discharge, about 59,000 cfs).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1007: 1943. WSP 1211: 1941-42. WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	1,160	205	255	305	662	155	559	530	85	42	10
2	230	1,100	205	261	283	612	150	492	611	84	37	11
3	201	969	220	448	266	568	145	440	738	91	39	16
4	178	819	205	2,450	272	511	138	391	586	124	42	15
5	160	707	196	1,780	364	477	145	359	442	115	33	14
6	140	616	192	1,340	418	469	154	361	349	120	45	12
7	96	546	183	1,100	412	483	150	847	294	86	186	12
8	1,880	484	174	949	394	448	145	932	257	37	175	11
9	2,220	1,210	165	833	364	429	140	742	221	29	118	9.5
10	987	1,260	148	735	340	439	137	3,070	195	23	84	8.5
11	651	1,040	148	651	339	440	136	7,430	169	20	63	7.2
12	567	903	144	574	451	423	132	2,920	147	20	49	6.0
13	553	784	132	1,150	709	412	128	1,910	118	18	40	5.4
14	602	826	124	3,470	707	403	128	1,390	105	20	34	5.1
15	574	981	132	2,080	680	388	124	1,080	93	18	37	4.4
16	466	875	165	1,570	632	363	121	873	91	15	53	4.0
17	388	798	215	1,310	596	339	120	690	84	13	54	4.0
18	334	728	220	1,130	557	320	120	566	76	12	43	3.7
19	288	651	215	956	605	304	121	499	68	11	37	4.1
20	250	581	210	805	686	293	133	420	62	9.2	30	5.7
21	220	497	210	714	686	275	139	345	57	8.0	25	5.2
22	192	442	225	651	1,070	264	150	316	55	7.2	23	4.5
23	1,020	394	245	581	1,160	250	354	664	57	14	24	4.1
24	4,170	346	255	546	1,080	234	915	4,320	65	24	21	4.0
25	2,080	310	250	497	1,020	220	739	1,900	60	98	20	5.4
26	5,270	294	250	448	948	201	629	1,230	54	88	20	5.9
27	7,580	277	245	400	840	193	592	929	48	91	20	5.7
28	6,000	261	245	364	726	185	529	722	46	76	19	6.2
29	3,090	240	240	358	------	179	505	582	91	68	16	5.2
30	1,980	220	240	346	------	170	628	478	56	56	14	4.6
31	1,470	------	250	328	------	161	------	406	------	50	12	------
TOTAL	44,098	20,319	6,253	29,080	16,910	11,115	7,902	37,863	5,825	1,530.4	1,455	219.4
MEAN	1,423	677	202	938	604	359	263	1,221	194	49.4	46.9	7.31
MAX	7,580	1,260	255	3,470	1,160	662	915	7,430	738	124	186	16
MIN	96	220	124	255	266	161	120	316	46	7.2	12	3.7
CFSM	3.82	1.82	.54	2.51	1.62	.96	.71	3.27	.52	.13	.13	.02
IN.	4.40	2.03	.62	2.90	1.69	1.11	.79	3.78	.58	.15	.15	.02
AC-FT	87,470	40,300	12,400	57,680	33,540	22,050	15,670	75,100	11,550	3,040	2,890	435

CAL YR 1970 TOTAL 207,425.14 MEAN 568 MAX 11,700 MIN .10 CFSM 1.52 IN 20.69 AC-FT 411,400
WTR YR 1971 TOTAL 182,569.80 MEAN 500 MAX 7,580 MIN 3.7 CFSM 1.34 IN 18.21 AC-FT 362,100

PEAK DISCHARGE (BASE, 10,000 CFS).--OCT. 26 (1730) 11,700 CFS (10.23 FT); MAY 11 (0315) 13,600 CFS (11.02 FT).

07252405 Ozark Lake at Ozark, Ark.

LOCATION.--Lat 35°28'21", long 93°48'46", SW¼ sec.6, T.9 N., R.26 W., Franklin County, at Ozark Dam on Arkansas River, 1 mile southeast of Ozark, and at mile 272.9.

DRAINAGE AREA.--151,801 sq mi.

PERIOD OF RECORD.--December 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 138,700 acre-ft Dec. 25 (elevation, 371.00 ft); minimum, 94,620 acre-ft Oct. 28 (elevation, 365.40 ft).

Period of record: Maximum contents, 148,400 acre-ft Feb. 21, 1970 (elevation, 372.00 ft); minimum since initial filling to bottom of power-pool level, 94,620 acre-ft June 13, Oct. 28, 1970 (elevation, 365.40 ft).

REMARKS.--Lake is formed by combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began Dec. 1, 1969, and bottom of power pool was first reached Dec. 6, 1969. Lake is used for navigation, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates............	373	160,000
Top of designated power pool.....	372	148,400
Bottom of designated power pool..	370	129,000
Crest of gated spillway..........	327	--
Bottom of lowest outlet..........	311.5	--

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

365	92.1	370	129.0
367	105.9	371	138.7

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126,200	100,200	129,000	135,800	126,700	112,000	125,900	129,000	130,000	126,800	128,200	127,800
2	125,300	100,200	126,900	136,800	126,500	126,900	128,000	128,300	127,600	127,100	127,000	127,000
3	125,900	100,700	125,100	136,300	127,500	122,600	128,200	127,400	125,600	129,400	127,000	127,400
4	127,800	99,460	127,400	126,700	125,500	113,400	125,700	128,200	124,900	127,500	126,400	127,800
5	127,400	100,000	128,200	115,900	127,800	117,500	126,500	129,400	126,200	129,000	128,600	127,800
6	126,400	107,600	127,900	102,400	128,100	126,500	127,400	128,200	128,100	126,700	125,800	127,800
7	124,900	122,900	126,700	101,600	126,700	127,400	127,800	128,000	127,000	128,200	128,200	113,200
8	125,700	126,000	128,400	108,100	126,500	114,400	126,700	129,500	127,800	125,900	127,500	112,500
9	114,900	128,200	126,500	119,800	127,300	108,500	128,200	129,200	126,700	125,700	128,000	115,500
10	114,400	125,300	128,200	127,900	126,800	108,000	125,700	127,400	127,400	126,900	128,000	124,000
11	111,900	124,900	125,500	125,200	126,300	108,000	127,000	127,400	126,400	127,400	129,200	127,800
12	106,200	127,000	125,900	126,500	127,400	111,300	126,100	129,000	127,400	126,700	127,800	127,900
13	108,300	125,900	127,400	124,300	126,500	114,200	128,600	130,000	126,900	127,900	127,800	126,100
14	113,800	127,400	126,500	116,000	127,500	115,400	126,800	128,600	126,100	127,400	127,800	128,300
15	116,700	126,500	127,200	127,800	126,400	114,000	128,100	130,000	123,900	127,200	128,500	128,300
16	108,200	126,500	126,800	126,400	128,800	114,700	128,100	128,800	118,300	128,300	128,600	128,100
17	107,800	127,600	128,800	126,500	126,100	118,300	126,400	128,000	111,900	126,500	128,000	127,300
18	106,800	127,000	127,200	128,100	126,500	126,900	125,700	129,200	121,000	126,900	129,100	127,300
19	107,800	125,700	126,500	126,500	127,000	127,400	128,200	127,400	125,300	126,900	127,500	127,300
20	107,000	125,700	128,000	126,700	126,100	126,800	127,500	128,600	125,700	125,700	128,500	127,400
21	112,800	127,400	135,300	127,000	126,100	127,700	128,300	128,600	127,400	127,000	126,700	127,700
22	121,600	127,400	136,800	125,900	110,800	126,500	129,500	128,600	125,300	126,100	127,400	128,300
23	118,400	127,400	137,700	127,000	110,400	124,900	128,100	130,700	126,200	125,300	126,200	127,900
24	104,800	127,100	137,200	125,700	118,300	127,900	127,400	127,200	128,600	126,000	127,400	127,400
25	100,500	127,400	135,800	125,200	125,300	127,200	128,200	126,700	126,200	128,000	126,000	126,500
26	100,500	126,500	135,300	126,900	116,900	126,200	128,200	128,200	126,500	129,500	126,500	126,900
27	98,400	127,400	137,200	126,500	102,300	127,200	130,000	127,400	126,500	128,500	128,600	127,400
28	99,250	127,000	137,000	126,100	100,000	127,400	128,200	125,600	125,500	126,100	129,000	128,200
29	99,460	127,800	136,300	126,500	------	127,400	128,600	128,100	126,200	128,200	128,600	128,200
30	100,000	127,400	136,800	127,400	------	128,100	129,000	126,400	126,800	129,200	127,400	128,700
31	99,680	------	136,400	126,500	------	126,900	------	127,800	------	127,800	129,400	------
MAX	127,800	128,200	137,700	136,800	128,800	128,100	130,000	130,700	130,000	129,500	129,400	128,700
MIN	98,400	99,460	125,100	101,600	100,000	108,000	125,700	125,600	111,900	125,300	125,800	112,500
(†)	366.18	369.81	370.76	369.70	366.22	369.74	370.00	369.85	369.73	369.85	370.04	369.96
(‡)	-28,120	+27,720	+9,000	-9,900	-26,500	+26,900	+2,100	-1,200	-1,000	+1,000	+1,600	-700

CAL YR 1970...................... ‡ +9,900
WTR YR 1971...................... ‡ +900

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

07257000 Big Piney Creek near Dover, Ark.

LOCATION.--Lat 35°32'58", long 93°09'30", in SW¼NE¼ sec.6, T.10 N., R.20 W., Pope County, on left bank 7.2 miles downstream from Indian Creek, 10.4 miles north of Dover, and at mile 28.0.

DRAINAGE AREA.--274 sq mi.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1967, published as Piney Creek near Dover.

GAGE.--Water-stage recorder. Datum of gage is 487.66 ft above mean sea level.

AVERAGE DISCHARGE.--21 years, 377 cfs (18.68 inches per year, 273,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,360 cfs May 11 (gage height, 8.47 ft); minimum, 0.05 cfs Sept. 18 (gage height, 0.75 ft).

Period of record: Maximum discharge, 77,400 cfs Feb. 9, 1966 (gage height, 25.27 ft), from rating curve extended above 16,000 cfs; no flow at times in 1952-54, 1956, 1964, 1969, 1970.

Flood of Jan. 24, 1949, reached a stage of 25.6 ft, from floodmarks (discharge, about 80,000 cfs).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	780	153	260	177	467	132	376	316	16	16	5.6
2	198	690	145	242	159	424	130	344	281	15	15	5.4
3	163	580	136	355	151	383	122	320	379	15	15	4.6
4	134	490	127	1,240	271	337	119	278	292	16	15	4.1
5	112	412	119	981	1,020	309	117	254	218	15	18	3.9
6	103	358	112	795	775	320	114	248	175	14	23	3.6
7	115	316	104	670	685	313	114	630	147	11	31	3.1
8	119	295	98	585	580	274	111	665	119	8.3	43	2.9
9	660	1,520	96	526	517	260	109	526	101	6.6	40	2.4
10	499	1,150	95	472	481	306	112	909	85	8.3	32	2.0
11	362	897	95	412	432	393	114	3,250	72	9.1	26	1.7
12	436	775	95	365	660	379	107	1,520	60	6.9	22	1.1
13	745	660	90	445	825	369	107	1,080	49	5.9	20	.65
14	1,140	720	84	1,790	740	351	106	810	41	4.6	17	.40
15	841	760	90	1,170	670	281	103	640	36	3.4	18	.28
16	635	640	218	921	595	239	99	503	32	2.4	20	.18
17	490	530	292	810	540	223	101	397	29	1.5	15	.10
18	397	450	257	705	467	205	106	323	25	.95	13	.06
19	341	390	236	580	600	194	112	267	21	.75	11	.08
20	288	340	215	485	625	185	114	223	18	.50	9.5	.14
21	239	310	436	436	610	173	129	185	15	.35	7.9	.13
22	205	280	590	400	1,260	165	139	167	14	.27	7.2	.13
23	203	260	555	365	1,040	173	521	198	14	4.4	6.9	.23
24	705	240	472	351	880	165	795	1,400	12	42	8.3	.34
25	750	220	420	320	785	160	620	830	12	37	8.3	.51
26	620	200	372	281	715	156	512	560	11	41	8.3	.75
27	2,710	190	337	242	610	152	440	412	10	34	7.2	.82
28	3,650	180	306	218	521	148	379	323	9.1	27	8.7	1.0
29	1,990	170	278	208	------	144	355	257	7.9	23	7.9	1.1
30	1,320	160	257	203	------	140	440	213	7.5	20	6.9	1.1
31	987	------	281	194	------	136	------	183	------	17	6.4	------
TOTAL	21,405	14,963	7,161	17,027	17,391	8,004	6,579	18,291	2,608.5	407.22	503.5	48.40
MEAN	690	499	231	549	621	258	219	590	87.0	13.1	16.2	1.61
MAX	3,650	1,520	590	1,790	1,260	467	795	3,250	379	42	43	5.6
MIN	103	160	84	194	151	136	99	167	7.5	.27	6.4	.06
CFSM	2.52	1.82	.84	2.00	2.27	.94	.80	2.15	.32	.05	.06	.006
IN.	2.91	2.03	.97	2.31	2.36	1.09	.89	2.48	.35	.06	.07	.006
AC-FT	42,460	29,680	14,200	33,770	34,500	15,880	13,050	36,280	5,170	808	999	96

CAL YR 1970 TOTAL 146,468.50 MEAN 401 MAX 10,000 MIN 1.6 CFSM 1.46 IN 19.89 AC-FT 290,500
WTR YR 1971 TOTAL 114,388.62 MEAN 313 MAX 3,650 MIN .06 CFSM 1.14 IN 15.53 AC-FT 226,900

PEAK DISCHARGE (BASE, 7,000 CFS).--NO PEAK ABOVE BASE.

07257995 Lake Dardanelle at Dardanelle, Ark.

LOCATION.--Lat 35°14'50", long 93°10'23", in sec.24, T.7 N., R.21 W., Pope County, at dam on Arkansas River, 1.5 miles northwest of courthouse in Dardanelle, and at mile 221.6.

DRAINAGE AREA.--153,666 sq mi, of which 22,241 sq mi is probably noncontributing.

PERIOD OF RECORD.--October 1964 to current year. Prior to October 1969, published as Dardanelle Reservoir at Dardanelle.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 489,700 acre-ft Feb. 27 (elevation, 338.10 ft); minimum, 421,900 acre-ft Oct. 9 (elevation, 336.03 ft).

Period of record: Maximum contents, 497,500 acre-ft Oct. 18, 1969 (elevation, 338.32 ft); minimum since initital filling to bottom of power pool, 415,200 acre-ft Oct. 13, 1969 (elevation, 335.81 ft).

REMARKS.--Lake is formed by combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began Oct. 1, 1964, and bottom of power pool was first reached Jan. 21, 1965. Lake is used for navigation, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates................	339	521,400
Top of designated power pool.........	338	486,200
Bottom of designated power pool......	336	420,900
Crest of gated spillway..............	300	8,200
Bottom of lowest outlet..............	288	10

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1970: Drainage area.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

336 420.9 337 452.7 339 521.4

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	452,700	485,900	450,100	440,000	454,000	466,800	450,500	442,200	442,200	441,600	466,100	444,100
2	436,200	481,800	451,100	441,900	442,200	440,600	440,000	450,500	452,100	430,400	465,100	442,200
3	428,900	485,900	440,000	451,400	458,100	427,300	444,400	455,400	452,100	428,500	459,400	448,200
4	428,900	485,900	424,100	468,100	458,700	443,200	455,400	453,700	452,100	440,600	456,100	454,000
5	429,800	479,500	427,900	482,900	432,700	452,700	456,400	441,200	458,700	463,100	452,700	458,100
6	435,200	485,900	432,000	481,200	444,700	466,100	440,000	443,200	465,800	458,700	447,300	449,800
7	436,800	475,500	426,600	488,000	455,000	466,100	432,000	440,900	459,400	436,200	447,300	461,400
8	422,500	485,900	426,600	483,200	447,000	460,100	433,600	451,400	459,400	429,800	464,400	485,900
9	449,800	483,200	435,200	475,100	447,000	453,700	437,400	463,800	459,400	433,000	464,400	476,200
10	472,800	477,800	443,500	467,800	442,200	446,700	450,800	460,700	447,600	444,400	452,700	481,200
11	488,000	449,500	444,400	468,100	446,000	453,700	458,700	474,100	429,200	461,100	447,300	459,400
12	484,200	433,000	444,400	455,700	446,000	445,700	461,400	459,400	422,800	448,900	447,300	473,500
13	482,900	449,500	451,400	465,800	432,300	440,300	454,700	445,100	437,400	434,300	433,300	472,100
14	486,600	445,700	450,100	486,200	436,800	474,500	459,700	441,600	451,700	445,100	445,400	466,100
15	478,800	436,500	451,400	483,200	436,800	469,500	455,400	436,800	464,800	445,100	454,000	460,100
16	457,700	431,400	453,400	468,100	441,200	448,900	453,400	449,500	467,800	428,900	448,900	458,100
17	449,500	431,400	445,400	465,800	443,500	432,000	470,800	452,100	459,400	443,500	448,900	442,500
18	463,400	436,800	447,900	458,100	441,200	450,100	472,800	440,000	450,100	477,200	442,200	436,200
19	472,500	457,700	469,500	455,700	449,200	445,400	464,400	443,800	455,400	471,100	437,800	440,000
20	481,200	449,500	473,800	464,800	465,100	430,400	462,100	441,600	459,400	464,400	428,900	438,700
21	469,500	430,400	473,800	454,000	461,700	432,000	464,100	441,600	456,700	450,500	437,100	429,800
22	443,800	440,000	472,800	434,300	458,700	445,700	451,100	442,500	456,400	437,800	461,100	434,900
23	436,200	429,800	464,100	436,500	461,100	435,500	452,700	457,700	446,300	437,800	466,100	434,900
24	485,500	431,400	457,100	463,100	472,100	426,900	471,100	466,100	429,500	427,900	453,000	441,600
25	487,600	427,900	448,900	463,100	474,500	441,600	472,800	472,800	422,800	429,200	449,500	463,100
26	481,200	440,900	434,300	457,400	482,900	445,700	466,400	462,800	435,500	431,700	449,500	465,400
27	485,500	448,900	435,500	456,100	489,400	458,700	456,700	452,700	469,100	434,600	449,500	463,100
28	478,800	454,400	434,300	450,100	483,200	476,200	451,100	467,400	462,800	443,200	461,100	457,700
29	481,500	468,800	433,300	454,000	------	469,500	446,300	466,100	445,700	436,800	474,100	450,800
30	481,500	458,700	429,800	456,100	------	458,400	442,200	466,100	438,700	436,800	459,400	448,600
31	480,200	------	432,000	456,100	------	456,700	------	454,400	------	440,600	446,300	------
MAX	488,000	485,900	473,800	488,000	489,400	476,200	472,800	474,100	469,100	477,200	474,100	485,900
MIN	422,500	427,900	424,100	434,300	432,300	426,900	432,000	436,800	422,800	427,900	428,900	429,800
(†)	337.82	337.18	336.35	337.10	337.91	337.12	336.67	337.05	336.56	336.62	336.80	336.87
(‡)	+11,800	-21,500	-26,700	+24,100	+27,100	-26,500	-14,500	+12,200	-15,700	+1,900	+5,700	+2,300

CAL YR 1970...................... -54,200
WTR YR 1971...................... -19,800

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

07258000 Arkansas River at Dardanelle, Ark.

LOCATION.--Lat 35°13'34", long 93°08'58", in SW¼ sec.29, T.7 N., R.20 W., Pope County, near left bank on upstream side of bridge on State Highway 7 at Dardanelle, 1 mile upstream from Whig Creek, 2.0 miles downstream from Dardanelle Dam, 4.7 miles downstream from Illinois Bayou, and at mile 219.5.

DRAINAGE AREA.--153,670 sq mi, of which 22,241 sq mi is probably noncontributing.

PERIOD OF RECORD.--July 1937 to current year. Gage-height records collected at same site since 1886 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder at bridge, and totalizing flowmeters on each turbine in Dardanelle Dam 2.0 miles upstream. Datum of gage is 280.16 ft above mean sea level. Prior to Jan. 11, 1939, nonrecording gage at same site at datum 10.0 ft higher. Jan. 11, 1939 to Dec. 10, 1970, water-stage recorder at same site at datum 10.0 ft higher.

AVERAGE DISCHARGE.--34 years, 34,260 cfs (24,820,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 145,000 cfs Oct. 28; minimum daily, 43 cfs Dec. 6.
Period of record: Maximum discharge, 683,000 cfs May 13, 14, 1943; maximum gage height, 33.60 ft, in gage well, 34.1 ft from outside gage, May 25, 1943; minimum daily discharge, 43 cfs Dec. 6, 1970.
Flood of Apr. 19, 1927, reached a stage of 33.0 ft.

REMARKS.--Records good. Flow regulated by many locks, dams, and reservoirs upstream. Daily discharges below about 50,000 cfs determined from flow through turbines. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Powerplant records and records of computed flow through gates furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31,500	79,700	11,900	4,590	16,600	42,100	11,200	14,000	11,700	24,800	4,550	9,360
2	32,300	79,800	13,900	8,160	15,800	37,300	9,870	9,490	17,300	30,900	13,300	11,100
3	23,200	74,500	15,000	17,100	13,800	37,600	617	10,600	23,300	14,900	13,700	10,100
4	13,500	77,500	11,900	43,200	30,000	31,100	410	15,600	33,200	7,250	11,400	8,700
5	9,060	70,400	2,670	50,800	25,900	34,000	5,320	18,600	35,000	7,940	10,200	5,390
6	6,490	47,600	43	53,800	18,800	26,300	12,700	13,400	21,900	18,200	19,700	21,000
7	7,020	43,800	4,100	51,500	10,400	23,800	7,410	17,200	20,800	19,400	23,800	34,700
8	22,200	34,900	1,730	60,000	13,100	35,900	3,280	7,530	18,500	20,100	5,690	45,700
9	40,500	54,100	851	45,900	24,000	41,000	3,080	5,050	21,400	23,900	12,600	48,100
10	46,100	43,800	2,500	40,300	26,600	42,500	2,410	12,800	26,500	21,200	12,800	33,600
11	45,100	41,300	8,200	35,400	18,300	38,700	2,680	31,800	29,400	13,600	16,300	29,100
12	56,800	31,700	3,360	33,000	25,700	38,700	6,080	31,500	29,800	23,300	21,000	9,130
13	56,800	22,200	761	29,800	29,700	27,800	8,440	24,100	23,000	16,200	20,700	18,400
14	45,200	31,000	5,580	50,200	14,300	13,300	6,790	20,000	27,300	17,800	7,210	18,200
15	42,200	40,000	6,100	56,100	12,400	32,900	8,740	15,300	28,800	21,800	4,180	11,000
16	33,500	35,300	8,420	40,700	8,600	29,000	10,500	4,340	34,700	24,900	11,700	14,200
17	29,600	18,600	7,750	31,500	21,500	15,400	1,470	9,370	41,600	12,000	8,850	13,800
18	31,800	15,000	6,300	32,100	25,900	12,500	4,530	13,500	38,100	4,160	11,500	7,040
19	35,300	17,000	5,730	30,900	26,100	18,200	6,370	12,000	27,400	24,100	12,300	15,000
20	36,900	27,000	4,310	31,700	25,700	25,100	12,900	11,500	21,500	21,600	15,300	17,200
21	40,900	27,500	10,300	37,600	23,000	7,290	19,300	12,100	25,900	22,900	13,100	18,100
22	32,000	14,300	12,800	29,800	37,400	12,200	21,600	6,080	24,100	19,900	2,070	15,100
23	24,700	16,300	19,400	13,800	43,600	22,700	18,100	1,450	23,000	19,200	14,700	17,700
24	58,900	7,740	22,100	7,270	42,400	19,500	19,200	25,100	20,900	33,200	18,600	15,500
25	88,600	7,740	15,900	15,500	36,400	9,460	13,800	30,800	28,900	28,900	19,700	10,800
26	81,000	385	15,900	14,600	36,700	19,400	16,100	31,800	23,300	10,900	21,100	19,400
27	125,000	2,950	7,570	17,400	47,400	18,300	14,900	24,200	7,740	13,100	16,600	20,800
28	145,000	4,150	9,310	14,900	54,700	11,000	12,600	22,500	23,400	15,500	6,870	20,200
29	97,300	8,770	10,300	10,700	------	17,300	13,700	24,500	31,600	17,900	4,990	16,900
30	91,400	10,800	10,700	12,900	------	15,500	15,900	19,800	31,900	16,100	17,600	18,200
31	90,300	------	10,600	15,400	------	10,600	------	17,500	------	19,600	13,400	------
TOTAL	1,520.2M	985,835	265,985	936,620	724,800	766,450	289,997	513,510	771,940	585,250	405,510	553,520
MEAN	49,040	32,860	8,580	30,210	25,890	24,720	9,667	16,560	25,730	18,880	13,080	18,450
MAX	145,000	79,800	22,100	60,000	54,700	42,500	21,600	31,800	41,600	33,200	23,800	48,100
MIN	6,490	385	43	4,590	8,600	7,290	410	1,450	7,740	4,160	2,070	5,390
AC-FT	3,015M	1,955M	527,600	1,858M	1,438M	1,520M	575,200	1,019M	1,531M	1,161M	804,300	1,098M

CAL YR 1970 TOTAL 11,765,936 MEAN 32,180 MAX 235,000 MIN 43 AC-FT 23,300,000
WTR YR 1971 TOTAL 8,319,587 MEAN 22,790 MAX 145,000 MIN 43 AC-FT 16,500,000

07258500 Petit Jean River near Booneville, Ark.

LOCATION.--Lat 35°06'25", long 93°55'25", in NW¼NW¼ sec.18, T.5 N., R.27 W., Logan County, on right bank at downstream side of bridge on State Highway 23, 0.5 mile downstream from Fletcher Creek, 2.3 miles south of Booneville, and at mile 102.3.

DRAINAGE AREA.--241 sq mi.

PERIOD OF RECORD.--November 1938 to current year. Prior to October 1965, published as Petit Jean Creek near Booneville.

GAGE.--Water-stage recorder. Datum of gage is 423.39 ft above mean sea level (levels by Corps of Engineers). Prior to May 24, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years (1939-71), 244 cfs (13.75 inches per year, 176,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,040 cfs Nov. 9 (gage height, 12.67 ft); minimum, 0.20 cfs Sept. 1, 19 (gage height, 1.31 ft).

Period of record: Maximum discharge, 43,200 cfs Apr. 16, 1939 (gage height, 23.42 ft), from rating curve extended above 20,500 cfs on basis of slope-area and contracted-opening measurement of peak flow; no flow at times.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	116	47	96	78	130	60	109	13	1.3	2.5	.80
2	29	108	44	94	69	142	54	81	12	1.1	1.8	45
3	23	101	41	997	66	205	49	64	13	.95	2.0	70
4	19	85	38	1,460	142	192	45	93	12	.80	1.6	14
5	16	75	34	512	236	164	43	46	9.9	.80	1.4	6.0
6	14	67	31	309	150	197	42	43	8.5	.70	11	3.2
7	12	61	29	230	134	214	39	94	7.3	.60	162	6.6
8	13	295	28	192	119	174	37	79	6.0	.90	45	8.5
9	20	2,040	27	180	97	156	35	67	4.6	.40	18	5.7
10	23	411	26	174	87	172	33	150	4.1	15	10	4.1
11	22	246	26	166	101	164	31	126	3.2	27	6.6	2.7
12	85	190	25	148	1,080	144	30	93	2.7	25	4.6	1.8
13	83	162	23	1,290	641	234	28	74	2.2	10	3.5	1.3
14	81	701	22	1,620	389	227	26	61	2.2	6.3	2.7	.95
15	63	494	27	659	287	168	25	49	2.5	4.3	2.2	.70
16	48	296	128	411	232	132	24	39	3.2	3.0	1.6	.60
17	41	234	97	324	251	111	23	33	3.2	2.2	1.4	.50
18	35	197	66	263	219	101	25	26	2.7	1.6	.95	.40
19	32	168	56	208	587	90	26	26	13	1.3	.80	.32
20	28	140	51	178	306	79	188	25	13	.95	.80	.50
21	25	115	408	166	414	73	431	22	14	.70	1.1	.40
22	21	103	459	158	701	69	203	20	9.9	.60	1.3	.40
23	367	85	314	148	372	64	934	50	5.7	1.6	1.6	.40
24	1,180	71	203	208	272	58	918	50	3.8	1.6	1.6	.40
25	354	67	164	184	241	75	270	41	2.7	9.6	1.4	.40
26	220	66	132	150	227	130	190	38	2.0	4.9	1.3	.60
27	1,620	64	117	121	186	106	150	26	1.4	1.6	.95	.80
28	837	58	106	108	158	90	115	22	2.0	6.6	.80	.70
29	353	53	94	103	------	90	106	19	1.8	8.2	.60	.60
30	208	50	90	101	------	76	146	16	1.3	8.2	.50	.60
31	143	------	113	93	------	67	------	14	------	3.8	.32	------
TOTAL	6,050	6,919	3,066	11,051	7,842	4,094	3,926	1,656	182.9	151.20	291.92	178.97
MEAN	195	231	98.9	356	280	132	131	53.4	6.10	4.88	9.42	5.97
MAX	1,620	2,040	459	1,620	1,080	234	934	150	14	27	162	70
MIN	12	50	22	93	66	58	23	14	1.3	.40	.32	.32
CFSM	.81	.96	.41	1.48	1.16	.55	.54	.22	.03	.02	.04	.02
IN.	.93	1.07	.47	1.71	1.21	.63	.61	.26	.03	.02	.05	.03
AC-FT	12,000	13,720	6,080	21,920	15,550	8,120	7,790	3,280	363	300	579	355

CAL YR 1970 TOTAL 75,516.03 MEAN 207 MAX 8,020 MIN .05 CFSM .86 IN 11.66 AC-FT 149,800
WTR YR 1971 TOTAL 45,408.99 MEAN 124 MAX 2,040 MIN .32 CFSM .51 IN 7.01 AC-FT 90,070

PEAK DISCHARGE (BASE, 4,000 CFS).--NOV. 9 (0400) 4,040 CFS (12.67 FT).

07259000 Blue Mountain Lake near Waveland, Ark.

LOCATION.--Lat 35°06'06", long 93°39'02", in NW¼NW¼ sec.15, T.5 N., R.25 W., Yell County, at outlet structure at Blue Mountain Dam on Petit Jean River, 1.9 miles southwest of Waveland, and at mile 74.4.

DRAINAGE AREA.--488 sq mi.

PERIOD OF RECORD.--March 1947 to current year. Prior to October 1969, published as Blue Mountain Reservoir near Waveland.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 37,150 acre-ft Oct. 30 (elevation, 387.90 ft); minimum, 4,740 acre-ft Dec. 12 (elevation, 374.10 ft).

Period of record: Maximum contents, 298,600 acre-ft May 26, 1957 (elevation, 422.54 ft); minimum since initial filling to conservation-pool level, 2,150 acre-ft Oct. 2, 3, 1959 (elevation, 370.68 ft), result of lowering pool to control fish population.

REMARKS.--Lake is formed by earthfill dam. Outlet works consist of a 20-foot circular tunnel controlled by three 8- by 17-foot tractor-type gates and an uncontrolled saddle spillway 150 ft long. Storage began Mar. 13, 1947. Capacity between elevations 384.0 and 419.0 ft is 233,300 acre-ft and is reserved for flood-control storage. Lake is used for flood-control, conservation and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest.................	419.0	257,900
Top of conservation pool..............	384.0	24,640
Bottom of lowest outlet (gate sills).	370.0	1,940

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-feet)

374	4,630	385	27,700
380	14,400	388	37,490

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25,340	31,410	8,260	6,790	5,970	27,360	25,310	34,300	33,730	33,490	30,800	27,490
2	25,070	28,890	7,450	6,790	5,550	27,240	25,100	34,300	33,760	33,390	30,430	27,390
3	24,880	26,260	6,790	6,720	5,300	27,210	24,920	34,230	33,790	33,190	30,460	27,390
4	24,700	24,500	5,950	11,820	5,540	27,150	24,790	34,060	33,790	33,050	30,430	27,390
5	24,670	23,350	5,290	12,400	6,280	27,150	24,760	34,060	33,790	32,990	30,520	27,360
6	24,760	22,280	4,870	12,110	6,210	27,360	24,790	34,430	33,730	32,850	30,870	27,300
7	24,760	21,190	4,780	11,600	5,970	27,420	24,760	34,670	33,690	32,550	31,410	27,210
8	25,070	20,340	4,790	10,890	5,720	27,330	24,760	34,730	33,590	32,450	31,310	27,180
9	24,980	23,650	4,790	10,140	5,380	27,700	24,880	34,840	33,560	32,650	30,970	27,090
10	24,850	23,460	4,750	9,430	5,220	27,460	24,880	34,900	33,460	33,090	30,550	27,930
11	25,280	23,080	4,760	8,670	5,400	27,120	24,920	34,840	33,420	33,220	30,490	26,940
12	25,470	22,260	4,740	9,030	8,810	26,380	24,950	34,500	33,390	33,120	30,120	26,840
13	25,600	21,570	4,740	11,530	11,540	26,170	24,980	34,260	33,390	32,850	29,820	26,780
14	25,410	22,560	4,740	17,020	12,970	26,810	24,920	34,160	33,390	32,550	29,320	26,660
15	25,070	23,160	4,740	17,640	13,920	25,890	24,950	34,200	33,360	32,210	28,920	26,510
16	24,950	22,780	4,760	17,470	14,850	25,070	25,010	34,160	33,160	32,080	28,680	26,410
17	24,920	22,150	4,780	16,920	15,540	24,610	25,100	34,160	33,120	31,950	28,590	26,320
18	24,790	21,240	4,790	16,180	16,190	24,950	25,220	34,160	33,090	31,880	28,470	26,320
19	24,850	20,390	4,790	15,140	17,450	24,640	25,310	34,260	32,950	31,810	28,370	26,260
20	24,920	19,190	5,010	14,050	18,160	24,640	25,890	34,200	33,420	31,610	28,250	26,110
21	24,820	18,160	5,950	13,120	19,600	24,790	26,870	34,130	33,390	31,460	28,220	25,960
22	24,820	17,210	7,930	12,200	22,120	24,920	27,640	34,130	33,320	31,340	28,100	25,890
23	25,410	16,020	8,670	11,310	23,320	25,010	30,490	34,370	33,260	31,610	28,280	25,890
24	27,980	14,690	8,320	10,690	24,370	24,980	32,620	34,730	33,220	31,580	28,250	25,770
25	29,050	13,700	7,810	10,000	25,500	25,340	33,590	34,500	33,160	31,510	28,190	25,770
26	29,230	12,820	7,080	9,420	26,350	25,470	34,430	34,160	33,090	31,440	28,070	25,710
27	33,390	11,960	6,470	8,850	26,840	25,650	34,570	33,790	33,090	31,270	27,940	25,650
28	35,710	11,040	5,740	8,270	27,120	25,830	34,230	33,760	32,950	31,400	27,820	25,620
29	36,820	10,140	5,250	7,750	------	25,770	34,230	33,590	32,950	31,980	27,730	25,560
30	36,250	9,220	4,940	7,130	------	25,560	34,200	33,590	33,530	31,910	27,610	25,500
31	33,830	------	4,840	6,640	------	25,470	------	33,590	------	31,410	27,490	------
MAX	36,820	31,410	8,670	17,640	27,120	27,700	34,570	34,900	33,790	33,490	31,410	27,490
MIN	24,670	9,220	4,740	4,790	5,220	24,610	24,760	33,590	32,950	31,270	27,490	25,500
(†)	386.91	377.36	374.20	375.67	384.81	384.27	387.02	386.84	386.82	386.19	384.93	384.28
(‡)	+8,000	-24,610	-4,380	+1,800	+20,480	-1,650	+8,730	-610	-60	-2,120	-3,920	-1,990

CAL YR 1970...................... ‡ -35,030
WTR YR 1971...................... ‡ -330

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

07259500 Petit Jean River near Waveland, Ark.

LOCATION.--Lat 35°06'17", long 93°37'53", in SE¼SW¼ sec.11, T.5 N., R.25 W., Yell County, on left bank 0.8 mile downstream from Rock Creek, 1.2 miles downstream from Cedar Creek, 1.3 miles south of Waveland, 1.4 miles downstream from Blue Mountain Dam, and at mile 73.0.

DRAINAGE AREA.--516 sq mi.

PERIOD OF RECORD.--January 1939 to current year. Published as Petit Jean Creek near Blue Mountain prior to October 1943, and as Petit Jean Creek near Waveland October 1943 to September 1965.

GAGE.--Water-stage recorder. Datum of gage is 339.70 ft above mean sea level. Prior to Sept. 30, 1943, at site 1.8 miles upstream at datum 9.54 ft higher.

AVERAGE DISCHARGE.--32 years, 524 cfs (379,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,560 cfs Nov. 1 (gage height, 11.57 ft); minimum daily, 14 cfs June 27, Sept. 30.

Period of record: Maximum discharge, 62,600 cfs Apr. 16, 1939 (gage height, 29.95 ft, site and datum then in use, or 34.0 ft from floodmarks, present site); no flow at times in 1943, 1946.

Maximum stage known since at least 1916, that of Apr. 16, 1939.

REMARKS.--Records good. Flow regulated by Blue Mountain Lake, 1.4 miles upstream, since March 1947. (See sta 07259000.)

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	1,520	525	239	434	290	222	182	24	26	237	30
2	182	1,530	500	197	370	383	209	146	26	51	167	30
3	94	1,510	477	174	252	387	181	143	30	51	122	27
4	61	1,150	450	338	221	383	167	142	28	51	121	26
5	36	713	380	832	346	381	120	117	26	51	122	26
6	26	701	261	822	464	389	83	87	27	51	167	26
7	25	690	119	800	455	387	72	51	26	50	240	27
8	25	682	73	779	441	383	64	110	26	33	239	28
9	25	700	73	753	423	383	63	136	26	21	236	29
10	25	711	72	726	317	396	62	153	26	20	234	29
11	26	707	63	700	266	527	62	371	24	21	234	29
12	26	705	39	671	383	781	62	370	19	79	234	28
13	107	696	39	561	326	570	62	294	18	123	231	28
14	236	285	33	426	261	423	61	181	18	122	230	28
15	234	450	25	1,040	225	574	32	101	17	122	227	27
16	165	701	151	1,020	219	713	20	71	17	70	128	24
17	93	741	228	1,010	222	417	19	52	16	20	55	24
18	69	772	168	982	216	260	19	50	16	19	54	28
19	44	764	118	954	215	172	19	48	17	22	44	28
20	36	758	73	894	212	124	19	46	17	25	28	27
21	34	743	82	814	179	95	19	45	16	26	27	25
22	20	732	82	789	94	93	19	44	16	28	28	24
23	31	719	414	764	69	92	96	48	16	28	27	23
24	26	703	700	745	56	92	66	119	16	28	26	22
25	26	620	673	720	49	94	50	252	16	27	28	22
26	354	553	641	599	116	129	40	248	16	28	30	22
27	110	559	606	516	155	156	248	197	14	28	30	20
28	78	586	565	502	151	156	334	121	16	44	30	26
29	55	567	464	486	------	192	257	88	16	58	30	26
30	654	546	368	470	------	224	255	53	30	131	30	14
31	1,490	------	288	452	------	224	------	39	------	239	29	------
TOTAL	4,688	22,814	8,750	20,775	7,137	9,870	3,002	4,105	616	1,693	3,665	773
MEAN	151	760	282	670	255	318	100	132	20.5	54.6	118	25.8
MAX	1,490	1,530	700	1,040	464	781	334	371	30	239	240	30
MIN	20	285	25	174	49	92	19	39	14	19	26	14
AC-FT	9,300	45,250	17,360	41,210	14,160	19,580	5,950	8,140	1,220	3,360	7,270	1,530

CAL YR 1970 TOTAL 164,960 MEAN 452 MAX 3,690 MIN 15 AC-FT 327,200
WTR YR 1971 TOTAL 87,888 MEAN 241 MAX 1,530 MIN 14 AC-FT 174,300

07260000 Dutch Creek at Waltreak, Ark.

LOCATION.--Lat 34°59'15", long 93°36'45", in SE¼NW¼ sec.24, T.4 N., R.25 W., Yell County, on left bank 0.2 mile north of Waltreak, and at mile 21.0.

DRAINAGE AREA.--81.4 sq mi.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 371.48 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--26 years, 88.6 cfs (14.78 inches per year, 64,190 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,100 cfs Oct. 27 (gage height, 9.26 ft); minimum, 0.04 cfs July 22, 23 (gage height, 2.37 ft).

Period of record: Maximum discharge, 24,500 cfs July 26, 1969 (gage height, 22.38 ft); no flow at times in most years.

Flood in 1927 reached a stage of 19.5 ft (discharge, about 14,600 cfs), from information by local resident.

REMARKS.--Records good.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	65	12	43	38	67	33	33	14	2.8	.92	6.8
2	3.7	55	11	39	33	65	31	29	14	3.1	.72	7.7
3	2.9	46	11	59	33	84	29	25	22	2.2	.73	8.2
4	2.6	38	9.5	210	74	90	27	22	14	1.9	.89	8.6
5	2.4	33	9.2	148	154	86	26	20	12	1.5	1.1	8.2
6	3.1	28	8.4	108	111	106	24	19	10	1.3	34	8.1
7	4.8	25	7.6	87	94	108	23	30	8.8	.98	227	7.6
8	5.4	23	7.4	74	82	93	21	33	7.9	.83	71	6.3
9	8.7	23	7.1	66	69	87	20	30	7.1	.70	39	4.7
10	22	22	7.1	58	60	122	19	33	6.2	1.1	28	3.4
11	20	22	7.1	53	57	117	17	40	5.6	3.4	23	2.6
12	244	19	6.6	48	673	103	16	124	4.9	1.7	21	1.7
13	93	17	6.0	68	375	116	15	77	4.5	1.0	92	1.2
14	52	22	5.6	185	223	127	14	51	4.3	.66	38	.78
15	37	38	6.9	142	167	99	13	40	3.7	.46	24	.52
16	30	38	12	107	132	80	13	33	3.2	.33	18	.35
17	24	36	20	92	110	68	12	28	3.0	.24	14	.22
18	20	35	26	79	92	61	13	23	2.4	.17	12	.10
19	16	34	24	67	85	54	13	20	2.1	.12	10	.27
20	13	30	26	56	73	47	13	17	1.9	.10	8.7	.81
21	12	27	131	51	108	43	17	14	2.3	.06	10	.86
22	11	26	272	47	220	40	29	13	16	.04	10	.69
23	12	22	222	46	151	36	257	12	9.3	.10	155	1.4
24	35	19	139	65	120	33	175	38	5.6	.20	31	2.3
25	51	17	100	75	105	36	102	46	4.1	.20	16	3.1
26	53	16	80	65	105	39	75	27	3.5	.21	13	4.0
27	907	15	68	56	90	38	59	21	3.0	.19	11	4.2
28	456	14	57	51	75	36	48	19	4.7	.25	8.2	3.7
29	208	13	49	48	------	37	40	17	3.7	.33	6.6	2.6
30	132	12	48	45	------	36	37	15	2.8	.80	5.8	2.0
31	86	------	50	42	------	34	------	12	------	1.1	6.1	------
TOTAL	2,571.7	830	1,446.5	2,380	3,709	2,188	1,231	961	206.6	28.07	896.76	103.00
MEAN	83.0	27.7	46.7	76.8	132	70.6	41.0	31.0	6.89	.91	28.9	3.43
MAX	907	65	272	210	673	127	257	124	22	3.4	227	8.6
MIN	2.4	12	5.6	39	33	33	12	12	1.9	.04	.72	.10
CFSM	1.02	.34	.57	.94	1.62	.87	.50	.38	.08	.01	.36	.04
IN.	1.18	.38	.66	1.09	1.70	1.00	.56	.44	.09	.01	.41	.05
AC-FT	5,100	1,650	2,870	4,720	7,360	4,340	2,440	1,910	410	56	1,780	204

CAL YR 1970 TOTAL 28,185.50 MEAN 77.2 MAX 4,180 MIN 0 CFSM .95 IN 12.88 AC-FT 55,910
WTR YR 1971 TOTAL 16,551.63 MEAN 45.3 MAX 907 MIN .04 CFSM .56 IN 7.56 AC-FT 32,830

PEAK DISCHARGE (BASE, 3,000 CFS).--NO PEAK ABOVE BASE.

07260500 Petit Jean River at Danville, Ark.

LOCATION.--Lat 35°03'33", long 93°23'44", in NW¼SE¼ sec.25, T.5 N., R.23 W., Yell County, on left bank at downstream side of bridge on State Highway 10 at Danville, 0.3 mile upstream from Chicago, Rock Island, and Pacific Railroad Co. bridge, 0.5 mile upstream from Spring Creek, 0.5 mile downstream from Dutch Creek, and at mile 48.8.

DRAINAGE AREA.--764 sq mi.

PERIOD OF RECORD.--June 1916 to current year. Prior to October 1965, published as Petit Jean Creek at Danville.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 303.33 ft above mean sea level. June 1, 1916, to Aug. 24, 1934, nonrecording gage on railroad bridge 0.3 mile downstream at datum 0.25 ft higher. Aug. 25, 1934, to July 12, 1939, nonrecording gage at present site and datum. Since June 18, 1954, auxiliary water-stage recorder 2.2 miles downstream.

AVERAGE DISCHARGE.--55 years, 807 cfs (584,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,620 cfs Feb. 13 (gage height, 13.93 ft); minimum daily, 18 cfs Sept. 28.

Period of record: Maximum discharge, 70,800 cfs Apr. 17, 1939 (gage height, 31.82 ft); no flow at times in 1924, 1934-36, 1943, 1956, 1963, 1965.

REMARKS.--Records good. Flow regulated by Blue Mountain Lake, 25.6 miles upstream, since March 1947. (see sta 07259000.) Danville diverted about 0.8 cfs for municipal use upstream from gage.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	1,670	936	484	537	370	327	329	70	97	240	35
2	244	1,740	516	344	909	533	318	235	58	46	240	36
3	193	1,730	494	385	415	612	288	211	80	78	151	38
4	140	1,600	470	863	452	609	262	201	73	62	120	32
5	101	1,080	442	1,120	744	590	236	193	59	56	137	28
6	76	727	372	1,170	756	617	171	140	52	55	166	28
7	62	696	291	1,070	723	646	132	158	50	53	1,130	27
8	51	689	110	997	678	602	120	121	47	52	672	27
9	47	994	79	967	626	581	113	190	47	47	358	28
10	42	824	77	897	574	718	110	199	45	36	321	28
11	39	742	77	802	458	714	108	351	43	28	279	28
12	110	718	67	755	1,670	917	104	528	40	30	287	20
13	270	704	90	833	2,350	1,130	102	943	36	79	274	27
14	237	740	67	1,180	1,360	826	99	392	32	122	282	26
15	207	316	51	1,360	835	700	95	263	30	118	273	26
16	274	670	95	1,440	655	862	75	160	28	115	252	29
17	182	750	282	1,350	586	780	57	128	26	64	119	21
18	146	796	273	1,280	539	514	57	102	25	28	70	22
19	123	790	211	1,190	550	393	57	92	26	22	65	27
20	94	770	161	1,130	488	301	56	83	25	22	58	27
21	71	754	515	1,020	550	247	59	77	27	26	44	24
22	54	741	810	966	1,100	205	57	73	24	29	40	22
23	41	722	870	985	754	187	211	76	26	33	39	22
24	81	707	1,060	959	511	173	499	12[illegible]	32	36	165	21
25	92	690	992	939	408	190	299	236	29	34	68	21
26	108	602	856	858	398	237	218	333	25	32	90	21
27	1,550	561	754	685	632	277	176	309	23	32	47	19
28	2,000	971	709	629	398	281	414	219	21	35	43	18
29	999	571	651	607	-------	291	397	195	20	47	41	20
30	637	552	544	590	-------	330	352	111	27	68	37	22
31	1,190	-------	502	566	-------	335	-------	79	-------	160	36	-------
TOTAL	9,655	25,293	12,918	28,201	20,054	15,768	5,569	6,428	1,144	1,702	6,096	774
MEAN	311	843	417	910	716	509	186	207	38.1	54.9	197	25.8
MAX	2,000	1,740	1,060	1,440	2,350	1,130	499	943	80	160	1,130	38
MIN	39	316	67	344	398	173	56	73	20	22	36	18
AC-FT	19,150	50,170	25,620	55,940	39,780	31,280	11,050	12,750	2,270	3,380	12,090	1,540

CAL YR 1970 TOTAL 249,324 MEAN 683 MAX 10,400 MIN 16 AC-FT 494,500
WTR YR 1971 TOTAL 133,602 MEAN 366 MAX 2,350 MIN 18 AC-FT 265,000

07261000 Cadron Creek near Guy, Ark.

LOCATION.--Lat 35°17'56", long 92°24'10", in NW¼SE¼ sec.29, T.8 N., R.13 W., Faulkner County, on left bank on downstream side of bridge on U.S. Highway 65, 4.3 miles southwest of Guy, and 10.5 miles upstream from Cove Creek, and at mile 48.3.

DRAINAGE AREA.--169 sq mi.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1965, published as North Fork Cadron Creek near Guy.

GAGE.--Water-stage recorder. Datum of gage is 371.68 ft above mean sea level.

AVERAGE DISCHARGE.--17 years, 272 cfs (19.75 inches per year, 197,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,720 cfs Oct. 27 (gage height, 11.89 ft); no flow July 22, 27.
Period of record: Maximum discharge, 18,600 cfs Aug. 14, 1957 (gage height, 24.95 ft), from rating curve extended above 14,000 cfs; no flow at times.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	488	120	362	150	336	150	122	62	3.4	71	58
2	101	457	120	323	140	320	140	106	59	4.7	43	52
3	83	407	110	531	140	325	130	96	58	3.7	39	47
4	65	331	100	1,900	200	325	130	88	50	3.2	93	46
5	48	286	100	1,050	800	336	120	82	45	3.2	199	40
6	39	254	95	717	600	516	110	78	38	10	572	37
7	36	228	90	540	480	481	110	115	31	14	341	29
8	55	206	90	485	480	421	105	223	26	9.8	235	28
9	127	390	85	432	320	435	101	162	23	9.2	169	26
10	195	486	80	376	270	681	95	140	20	5.8	133	22
11	146	387	80	336	260	580	90	131	18	4.0	102	20
12	144	350	100	307	1,100	500	88	140	16	3.2	650	16
13	328	320	95	388	900	450	83	393	14	2.4	302	13
14	1,580	500	86	691	700	370	78	286	13	1.7	195	9.2
15	820	660	133	528	580	320	75	216	11	1.1	142	7.5
16	920	540	698	447	470	280	72	171	9.8	1.3	115	5.0
17	379	460	772	390	610	240	69	138	8.0	2.4	98	4.7
18	512	600	589	368	390	220	71	115	29	1.7	82	4.0
19	274	340	688	289	590	210	68	98	44	1.1	65	22
20	238	500	393	262	560	210	66	83	21	.63	52	36
21	206	260	630	247	540	200	64	71	12	.11	43	58
22	180	220	1,190	238	1,300	190	61	62	9.8	0	35	27
23	169	200	1,120	274	828	180	102	58	8.0	.11	421	19
24	302	180	791	254	661	170	214	369	7.1	.34	230	13
25	418	160	627	221	559	190	144	292	6.7	.23	182	13
26	331	150	497	202	497	220	118	169	5.4	.23	138	14
27	2,950	140	416	180	413	240	104	126	4.0	0	115	9.2
28	2,110	140	362	170	362	210	93	102	3.4	51	94	8.0
29	1,270	130	323	160	------	198	90	98	3.2	93	79	6.7
30	853	130	296	150	------	180	106	79	2.6	534	66	6.3
31	627	------	390	150	------	160	------	66	------	136	64	------
TOTAL	14,638	9,508	11,074	12,968	14,620	9,694	3,127	4,459	658.0	901.55	5,177	684.6
MEAN	472	317	357	418	522	313	104	144	21.9	29.1	167	22.8
MAX	2,950	660	1,190	1,900	1,300	681	214	393	62	534	650	58
MIN	36	130	80	150	140	160	61	58	2.6	0	39	4.0
CFSM	2.79	1.88	2.11	2.47	3.09	1.85	.62	.85	.13	.17	.99	.13
IN.	3.22	2.09	2.44	2.85	3.22	2.13	.69	.98	.14	.20	1.14	.15
AC-FT	29,030	18,860	21,970	25,720	29,000	19,230	6,200	8,840	1,310	1,790	10,270	1,360

CAL YR 1970 TOTAL 124,870.20 MEAN 342 MAX 8,000 MIN 4.4 CFSM 2.02 IN 27.48 AC-FT 247,700
WTR YR 1971 TOTAL 87,509.15 MEAN 240 MAX 2,950 MIN 0 CFSM 1.42 IN 19.26 AC-FT 173,600

PEAK DISCHARGE (BASE, 4,000 CFS).--OCT. 27 (1615) 4,720 CFS (11.89 FT).

NOTE.--No gage-height record Nov. 12 to Dec. 13, Jan. 27 to Feb. 22, and Mar. 11 to Apr. 8, 10, 11.

07261500 Fourche LaFave River near Gravelly, Ark.

LOCATION.--Lat 34°52'21", long 93°39'24", in NW¼NW¼ sec.34, T.3 N., R.25 W., Yell County, near left bank on downstream side of bridge on State Highway 28, 1.2 miles downstream from Garner Creek, 1.9 miles east of Gravelly, 6.4 miles upstream from Gaffords Creek, and at mile 103.7.

DRAINAGE AREA.--410 sq mi.

PERIOD OF RECORD.--February 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 410.50 ft above mean sea level (levels by Corps of Engineers). Prior to May 11, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 516 cfs (17.09 inches per year, 373,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 11,100 cfs Oct. 27 (gage height, 15.46 ft); minimum, 1.6 cfs Sept. 19; minimum gage height, 0.73 ft Sept. 18, 19.

Period of record: Maximum discharge, 69,400 cfs May 20, 1960, and July 26, 1969 (gage height, 30.30 ft); no flow at times.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1007: 1939. WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	409	97	226	186	350	194	220	104	18	7.5	8.9
2	46	403	91	210	173	320	181	194	112	18	7.0	8.9
3	39	364	85	202	164	441	170	172	114	15	8.9	8.9
4	32	315	79	1,230	230	982	161	152	112	12	16	7.0
5	28	268	74	1,170	523	941	152	137	95	11	43	6.5
6	32	236	70	785	990	914	143	132	85	9.3	60	6.0
7	40	212	64	582	441	469	136	292	77	8.9	79	5.5
8	35	192	60	462	383	418	127	990	66	7.5	60	4.8
9	39	190	58	397	334	386	121	546	60	7.0	48	4.4
10	67	246	56	358	295	510	116	477	54	6.5	58	4.2
11	98	273	55	323	279	568	111	712	49	6.3	48	4.0
12	220	224	54	287	2,080	497	104	550	44	6.0	42	4.0
13	358	198	50	328	2,460	1,020	100	406	39	5.8	56	3.6
14	383	240	48	910	1,540	1,670	95	334	35	5.8	83	3.4
15	292	510	54	1,090	1,100	1,100	91	273	32	5.5	116	3.0
16	226	519	78	700	840	790	86	228	28	5.0	92	2.6
17	182	415	101	618	667	609	83	194	25	4.6	69	2.3
18	156	358	118	510	537	493	86	160	25	4.2	55	2.0
19	132	310	130	421	485	427	86	148	82	4.0	46	3.6
20	116	268	132	355	434	375	88	132	41	4.0	38	4.0
21	101	234	264	313	532	326	157	118	27	3.8	32	3.4
22	91	210	740	282	1,310	295	448	106	40	3.6	28	3.0
23	88	182	1,200	266	1,040	266	1,210	98	25	4.2	38	3.2
24	112	164	875	305	770	240	1,930	108	21	5.8	44	3.0
25	375	150	609	315	627	236	900	136	21	6.3	26	3.2
26	394	139	462	302	559	253	577	196	18	6.5	20	3.2
27	6,910	132	380	266	469	250	418	150	15	6.8	16	3.4
28	3,990	121	326	242	397	242	336	130	13	9.8	14	3.2
29	1,880	112	285	226	------	236	275	116	13	12	12	3.2
30	1,060	103	259	214	------	222	244	108	13	12	10	3.0
31	699	------	244	202	------	208	------	98	------	9.3	9.8	------
TOTAL	18,275	7,777	7,198	14,257	19,801	14,862	8,926	7,821	1,485	244.5	1,282.2	129.6
MEAN	590	259	232	460	707	479	298	252	49.5	7.89	41.4	4.31
MAX	6,910	519	1,200	1,230	2,460	1,670	1,930	990	114	18	116	8.9
MIN	28	103	48	202	164	208	83	98	13	3.6	7.0	2.0
CFSM	1.44	.63	.57	1.12	1.72	1.17	.73	.61	.12	.02	.10	.01
IN.	1.66	.71	.65	1.29	1.80	1.35	.81	.71	.13	.02	.12	.01
AC-FT	36,250	15,430	14,280	28,280	39,280	29,480	17,700	15,510	2,950	485	2,540	257

CAL YR 1970 TOTAL 171,590.2 MEAN 470 MAX 13,200 MIN 1.4 CFSM 1.15 IN 15.57 AC-FT 340,300
WTR YR 1971 TOTAL 102,056.1 MEAN 280 MAX 6,910 MIN 2.0 CFSM .68 IN 9.26 AC-FT 202,400

PEAK DISCHARGE (BASE, 10,000 CFS).--OCT. 27 (1730) 11,100 CFS (15.46 FT).

07262000 Nimrod Lake near Nimrod, Ark.

LOCATION.--Lat 34°57'07", long 93°09'38", in NW¼SW¼ sec.32, T.4 N., R.20 W., Perry County, at Nimrod Dam on Fourche LaFave River, 4.8 miles west of Nimrod, 10.2 miles upstream from South Fourche LaFave River, and at mile 62.6.

DRAINAGE AREA.--680 sq mi.

PERIOD OF RECORD.--May 1942 to current year. Prior to October 1944, monthend contents only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 56,720 acre-ft Oct. 30 (elevation, 348.03 ft); minimum, 21,110 acre-ft Sept. 30 (elevation, 339.50 ft).

Period of record: Maximum contents, 369,700 acre-ft Mar. 31, 1945 (elevation, 374.80 ft); minimum since initial filling to conservation pool, 4,620 acre-ft Dec. 1, 1960 (elevation, 327.52 ft).

REMARKS.--Lake is formed by concrete-gravity dam. Storage began May 18, 1942. Capacity between elevations 342.0 and 373.0 ft is 307,000 acre-ft and is reserved for flood-control storage. Figures given herein represent total contents. Contents computed from daily readings at 2400 to five significant figures prior to Oct. 1, 1963. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest...........	373.0	336,000
Top of conservation pool........	342.0	29,000
Bottom of lowest outlet.........	314.9	867

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-feet)

339	19,660	342	29,010	349	62,200
341	25,460	345	41,020		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29,050	50,700	29,050	29,260	29,790	32,450	29,470	40,720	40,550	38,990	35,060	31,710
2	29,050	46,260	29,010	29,290	29,760	31,890	29,540	40,940	40,640	38,860	35,310	31,670
3	29,970	40,510	28,970	31,640	29,790	31,320	29,540	41,070	40,510	38,690	35,390	31,530
4	28,830	34,720	29,010	36,030	30,290	30,860	29,610	41,120	40,390	38,650	35,350	31,390
5	28,870	31,640	29,080	38,360	30,640	30,470	29,720	41,270	40,260	38,480	35,690	31,280
6	29,510	30,250	29,120	38,650	30,960	30,250	29,610	41,760	39,960	38,310	35,900	31,140
7	29,510	29,580	29,120	38,140	31,250	29,580	29,580	42,500	39,920	38,100	36,750	31,030
8	29,760	29,930	29,190	37,340	30,680	29,150	29,440	43,140	39,880	37,930	36,790	30,960
9	29,540	30,430	29,190	36,240	29,680	29,510	29,360	43,390	39,790	37,890	35,990	30,820
10	29,260	29,720	29,260	35,100	29,330	29,930	29,260	42,900	39,670	37,760	34,630	30,750
11	29,650	30,220	29,440	33,700	29,510	30,040	29,150	42,950	39,670	37,590	34,040	30,640
12	29,760	30,150	29,190	32,280	36,620	29,760	29,330	43,190	39,580	37,470	33,830	30,540
13	29,790	30,430	29,080	32,030	45,660	29,510	29,540	42,300	39,670	37,300	33,450	30,430
14	28,730	30,890	29,050	33,110	48,680	31,920	29,650	41,420	39,580	37,130	33,190	30,290
15	27,090	31,140	29,650	34,460	49,660	32,100	29,760	41,220	39,540	36,830	33,240	30,180
16	25,290	30,710	30,430	34,840	47,640	32,100	29,930	41,020	39,450	36,710	33,320	30,040
17	23,660	30,220	30,820	34,550	43,190	31,460	30,080	41,020	39,330	36,540	33,360	29,930
18	21,810	29,650	30,820	34,000	38,650	31,640	30,290	41,070	39,620	36,410	33,360	29,930
19	21,239	29,580	30,570	32,860	34,250	29,930	30,430	40,810	39,670	36,320	33,280	30,250
20	21,310	29,190	30,150	31,710	32,030	29,190	30,640	40,600	39,750	36,110	33,450	30,040
21	21,280	29,150	30,710	30,540	32,240	29,080	30,820	40,550	39,840	35,990	33,360	29,900
22	21,310	29,260	32,940	29,760	34,420	29,010	31,670	40,510	39,710	35,820	33,280	29,790
23	21,540	29,050	35,100	29,760	35,480	28,900	33,190	41,020	39,580	35,940	33,870	29,720
24	21,520	28,970	35,690	30,110	35,860	28,970	37,970	41,910	39,500	35,820	33,580	29,080
25	21,310	29,010	35,390	30,250	35,770	29,580	40,260	41,420	39,330	35,730	33,110	27,310
26	22,240	28,970	34,590	30,250	35,440	29,540	41,220	40,850	39,200	35,610	32,520	25,370
27	31,670	29,010	33,450	30,150	34,720	29,330	41,370	40,770	39,200	35,480	32,280	23,690
28	48,730	29,010	32,170	29,930	33,660	29,440	41,170	40,470	39,240	35,520	32,170	21,950
29	54,970	29,050	30,780	30,000	------	29,400	40,890	40,260	39,120	35,520	32,030	21,200
30	55,930	29,080	29,860	29,930	------	29,330	40,770	40,220	39,120	35,350	31,920	21,110
31	53,500	------	29,290	29,830	------	29,290	------	40,220	------	35,180	31,810	------
MAX	55,930	50,700	35,690	38,650	49,660	32,450	41,370	43,390	40,640	38,990	36,790	31,710
MIN	21,239	28,970	28,970	29,260	29,330	28,900	29,150	40,220	39,120	35,180	31,810	21,110
(†)	347.46	342.02	342.08	342.23	343.26	342.08	344.94	344.81	344.55	343.62	342.79	339.50
(‡)	+24,450	-24,420	+210	+540	+3,830	-4,370	+11,480	-550	-1,100	-3,940	-3,370	-10,700

CAL YR 1970...................... ‡ -56,560
WTR YR 1971...................... ‡ -7,940

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

07262500 Fourche LaFave River near Nimrod, Ark.

LOCATION.--Lat 34°57'02", long 93°09'16", in NW¼SW¼ sec.32, T.4 N., R.20 W., Perry County, on left bank 2,000 ft downstream from Nimrod Dam, 4.5 miles southwest of Nimrod, and 9.8 miles upstream from South Fourche LaFave River, and at mile 62.2.

DRAINAGE AREA.--684 sq mi.

PERIOD OF RECORD.--March 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 305.25 ft above mean sea level (levels by Corps of Engineers). Mar. 3, 1936, to Dec. 20, 1938, nonrecording gage at site 1.1 miles downstream at datum 3.92 ft lower. Dec. 21, 1938, to Aug. 20, 1946, water-stage recorder at site 2 miles downstream at datum 9.72 ft lower.

AVERAGE DISCHARGE.--35 years, 844 cfs (611,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,500 cfs Nov. 2 (gage height, 7.57 ft); minimum daily, 19 cfs June 18, Sept. 30.

Period of record: Maximum discharge, 36,100 cfs Feb. 19, 1938 (gage height, 29.7 ft, site and datum then in use, and 27.6 ft, present site and datum, from floodmark); no flow at times in 1936, 1939, 1952.

Flood in June 1935 reached a stage of 28.8 ft, present site and datum, from information by Corps of Engineers (discharge, 39,000 cfs).

REMARKS.--Records good. Flow regulated by Nimrod Lake, 2,000 ft upstream, since 1942. (See sta 07262000.)

REVISIONS (WATER YEARS).--WSP 877: 1938. WSP 1311: 1937(M). WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	2,120	142	375	405	1,180	227	286	103	49	37	51
2	35	2,810	140	282	405	1,170	227	115	143	60	36	50
3	37	3,400	140	238	400	1,160	223	115	168	66	35	54
4	40	3,310	83	77	400	1,160	226	115	168	66	49	62
5	28	1,950	65	765	560	1,160	220	115	168	66	65	60
6	20	1,040	65	1,190	770	1,160	220	115	168	66	123	59
7	22	600	65	1,190	770	1,160	220	330	107	66	206	47
8	24	220	70	1,190	892	922	216	570	77	59	206	39
9	120	435	70	1,180	1,050	710	216	810	77	47	470	37
10	150	704	70	1,170	700	710	216	1,060	72	47	645	31
11	67	310	101	1,160	480	970	195	1,220	51	47	505	33
12	91	310	140	1,160	177	1,150	58	1,220	42	47	206	33
13	334	310	107	1,150	430	1,150	58	1,220	42	47	206	33
14	886	310	67	1,150	1,270	1,160	58	1,010	42	47	163	32
15	1,150	493	51	1,160	1,270	1,170	56	545	42	47	47	31
16	1,130	910	51	1,160	2,400	1,170	48	395	42	44	49	29
17	1,110	910	118	1,160	3,330	1,170	35	266	33	38	50	30
18	1,090	786	278	1,160	3,260	1,170	35	202	19	38	50	30
19	440	625	360	1,160	3,200	1,170	35	262	29	38	61	31
20	91	460	555	1,150	1,900	892	34	238	29	38	67	32
21	107	350	555	1,140	1,170	540	34	145	39	38	67	33
22	105	298	560	880	1,170	485	35	109	54	37	67	32
23	99	294	946	555	1,190	435	36	111	54	38	135	33
24	174	230	1,200	555	1,190	282	35	111	54	38	290	262
25	206	202	1,200	555	1,190	220	36	355	49	38	290	922
26	206	195	1,200	555	1,190	425	342	390	32	38	286	904
27	94	189	1,190	555	1,190	525	485	234	33	38	140	892
28	31	158	1,180	505	1,190	395	485	282	35	38	70	874
29	39	145	1,170	400	------	395	485	195	38	38	69	400
30	982	145	1,000	405	------	395	410	99	42	36	62	19
31	2,140	------	715	405	------	342	------	99	------	36	59	------
TOTAL	11,081	24,219	13,654	25,737	33,549	26,103	5,206	12,339	2,052	1,436	4,811	5,175
MEAN	357	807	440	830	1,198	842	174	398	68.4	46.3	155	173
MAX	2,140	3,400	1,200	1,190	3,330	1,180	485	1,220	168	66	645	922
MIN	20	145	51	77	177	220	34	99	19	36	35	19
AC-FT	21,980	48,040	27,080	51,050	66,540	51,780	10,330	24,470	4,070	2,850	9,540	10,260

CAL YR 1970 TOTAL 305,609 MEAN 837 MAX 4,950 MIN 17 AC-FT 606,200
WTR YR 1971 TOTAL 165,362 MEAN 453 MAX 3,400 MIN 19 AC-FT 328,000

07263000 South Fourche LaFave River near Hollis, Ark.

LOCATION.--Lat 34°54'41", long 93°03'21", in SE¼NE¼ sec.18, T.3 N., R.19 W., Perry County, on left bank 0.8 mile upstream from Big Cove Creek, 2.1 miles downstream from Cedar Creek, 4 miles northeast of Hollis, and at mile 5.6.

DRAINAGE AREA.--210 sq mi.

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 366.10 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--30 years, 286 cfs (18.41 inches per year, 207,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 18,200 cfs Oct. 27 (gage height, 12.79 ft); minimum, 0.30 cfs Sept. 29, 30 (gage height, 1.65 ft).
Period of record: Maximum discharge, 54,400 cfs Mar. 30, 1945 (gage height, 19.47 ft), from rating curve extended above 31,000 cfs on basis of slope-area measurement of peak flow; no flow at times.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers, and reviewed by Geological Survey

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	164	38	138	94	201	105	58	24	39	1.8	17
2	7.2	193	35	127	81	219	94	50	25	72	5.8	14
3	6.1	187	34	1,420	76	484	83	41	30	23	15	12
4	5.1	150	32	3,260	123	495	76	35	25	16	31	12
5	4.4	123	29	910	477	428	70	32	21	14	616	10
6	7.9	105	28	504	314	403	64	32	18	35	447	8.8
7	19	88	27	336	227	333	61	88	15	23	319	7.2
8	14	73	24	259	190	270	57	242	33	16	173	5.5
9	30	126	23	218	161	250	51	126	97	11	92	4.7
10	33	191	22	188	142	917	49	157	36	8.8	57	3.7
11	23	139	25	163	137	626	46	465	23	14	45	2.9
12	61	113	33	141	4,670	425	41	1,340	18	12	504	2.4
13	129	103	34	141	1,710	1,010	38	684	16	8.8	212	1.8
14	185	911	31	591	826	701	37	343	16	6.4	129	1.6
15	105	738	79	391	550	444	35	215	16	4.5	78	1.2
16	65	394	751	245	405	311	34	157	12	3.4	52	1.0
17	46	266	569	207	311	242	33	121	9.6	2.7	39	.80
18	36	204	305	178	259	213	32	94	8.2	2.0	31	.80
19	30	170	215	148	404	196	32	75	11	1.6	26	.90
20	26	148	170	126	410	171	31	61	9.6	1.4	21	1.0
21	21	119	188	117	643	150	29	50	20	1.1	19	.80
22	18	103	2,410	113	1,310	137	28	43	41	1.0	16	.70
23	15	88	1,170	109	695	125	467	38	47	1.0	397	.70
24	788	71	553	204	475	111	302	79	27	1.0	441	.60
25	237	64	346	240	362	118	173	73	18	3.3	127	.60
26	155	58	249	185	344	135	123	57	13	9.8	64	.50
27	7,820	55	201	150	299	142	95	44	9.6	3.5	41	.50
28	2,550	51	168	131	232	139	79	36	8.1	3.7	30	.40
29	912	45	141	123	——	131	67	31	8.1	4.5	24	.30
30	394	40	129	117	——	123	61	27	15	3.4	20	.30
31	230	——	141	107	——	115	——	23	——	2.5	18	——
TOTAL	13,981.5	5,280	8,200	11,287	15,927	9,765	2,493	4,917	670.2	349.4	4,091.6	114.70
MEAN	451	176	265	364	569	315	83.1	159	22.3	11.3	132	3.82
MAX	7,820	911	2,410	3,260	4,670	1,010	467	1,340	97	72	616	17
MIN	4.4	40	22	107	76	111	28	23	8.1	1.0	1.8	.30
CFSM	2.15	.84	1.26	1.73	2.71	1.50	.40	.76	.11	.05	.63	.02
IN.	2.48	.94	1.45	2.00	2.82	1.73	.44	.87	.12	.06	.72	.02
AC-FT	27,730	10,470	16,260	22,390	31,590	19,370	4,940	9,750	1,330	693	8,120	228

CAL YR 1970 TOTAL 101,505.60 MEAN 278 MAX 9,220 MIN .80 CFSM 1.32 IN 17.98 AC-FT 201,300
WTR YR 1971 TOTAL 77,076.40 MEAN 211 MAX 7,820 MIN .30 CFSM 1.00 IN 13.65 AC-FT 152,900

PEAK DISCHARGE (BASE, 9,000 CFS).--OCT. 27 (0730) 18,200 CFS (12.79 FT).

07263450 Arkansas River at Murray Dam, at Little Rock, Ark.
(International Hydrological Decade River Station)

LOCATION.--Lat 34°47'27", long 92°21'32", in sec.23, T.2 N., R.13 W., Pulaski County, in Murray Dam control house on right bank and at mile 141.5.

DRAINAGE AREA.--158,030 sq mi, of which 22,241 sq mi is probably noncontributing.

PERIOD OF RECORD.--September 1927 to current year. Prior to October 1969, published as 07263500 Arkansas River at Little Rock. Monthly discharge only for some periods, published in WSP 1311. Gage-height records collected at or near former site since 1873 are contained in reports of U.S. Weather Bureau. Gage-height records collected at site 5.5 miles downstream since 1883, and intermittent records of discharge since 1885 are contained in reports of Mississippi River Commission.

GAGE.--Water-stage and gate position recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, Oct. 1, 1934, to May 9, 1970, recording gage at site 6.2 miles downstream at datum 223.61 ft higher. Sept. 20, 1968, to May 9, 1970, auxiliary water-stage recorder 5.5 miles upstream from former gage.

AVERAGE DISCHARGE.--44 years, 39,510 cfs (28,620,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 161,000 cfs Oct. 28 (tailwater elevation, 247.58 ft); minimum daily discharge, 1,470 cfs Dec. 8.

Period of record: Maximum discharge, 536,000 cfs May 27, 1943 (gage height, 30.05 ft, site and datum then in use); minimum, 850 cfs Aug. 23, 1934.

Flood in June 1833 reached a stage of 34.6 ft, former site and datum. Flood of Apr. 20, 1927, reached a stage of 33.0 ft, former site and datum.

REMARKS.--Records good. Beginning May 10, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream. Water-quality records at sites 6.2 and 16.8 miles downstream for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28,700	105,000	11,600	15,600	21,900	58,800	10,800	18,100	18,300	31,900	19,100	14,900
2	36,100	96,600	15,100	11,800	19,700	47,900	11,700	14,900	12,200	27,300	4,710	7,640
3	29,800	93,300	19,000	15,600	16,200	43,100	5,610	13,200	21,400	27,100	16,200	11,200
4	20,100	90,000	13,000	44,800	22,200	43,800	4,200	11,800	27,600	11,200	13,500	9,630
5	11,500	91,500	6,280	60,100	39,100	37,300	4,300	16,200	38,000	6,770	16,300	8,680
6	4,620	74,500	4,220	66,900	25,300	38,800	11,000	18,000	31,600	11,000	16,600	9,440
7	7,630	57,800	3,020	69,100	22,900	32,200	14,400	18,700	20,900	16,200	35,000	29,800
8	16,000	47,800	1,470	64,500	13,200	33,000	6,040	18,000	21,500	18,400	16,900	41,300
9	34,300	48,700	2,400	68,000	20,000	45,300	2,650	7,820	18,200	20,400	11,000	47,600
10	40,800	59,500	3,150	56,700	33,400	48,900	2,570	10,000	24,800	20,700	17,700	44,900
11	47,000	53,200	5,640	47,200	29,600	51,200	3,910	26,100	28,300	21,500	20,000	32,800
12	50,900	49,100	3,830	41,500	28,000	47,800	2,940	46,300	30,800	15,800	20,500	20,500
13	55,900	29,100	6,820	36,300	48,500	45,300	8,090	36,700	31,300	22,300	23,100	12,000
14	57,600	34,000	4,210	42,800	43,000	33,300	11,600	33,100	25,700	16,000	15,100	13,100
15	51,400	43,200	7,170	65,600	22,600	23,200	9,490	27,400	26,700	18,200	10,700	17,300
16	42,600	48,600	11,400	60,800	24,600	40,700	9,980	18,900	32,800	21,800	7,650	10,400
17	38,400	31,600	17,200	48,400	20,100	27,400	6,390	7,340	36,300	24,400	12,200	15,400
18	30,200	26,500	13,900	37,800	35,100	17,000	3,360	13,400	38,300	8,650	8,900	9,640
19	38,700	22,800	8,530	37,500	38,600	21,800	3,300	15,700	35,900	10,530	14,200	13,800
20	41,500	26,600	9,400	37,200	37,100	29,800	8,420	13,300	28,200	25,500	13,300	15,900
21	39,600	32,100	14,700	39,200	38,000	21,000	16,900	14,100	21,700	22,400	12,100	16,900
22	41,200	29,000	27,600	40,800	39,400	8,210	18,000	6,670	24,900	18,700	11,800	18,200
23	27,700	15,500	31,100	30,800	54,400	20,800	25,900	6,940	22,600	18,500	8,680	17,400
24	39,200	16,800	35,100	15,600	57,800	24,400	21,500	16,700	21,300	25,200	17,600	16,100
25	67,700	5,390	31,700	15,500	50,800	16,100	27,200	31,000	22,500	32,600	24,100	15,500
26	96,300	5,400	26,200	17,800	46,000	15,600	17,600	36,300	25,200	23,000	22,500	10,400
27	110,000	5,440	22,300	22,800	47,000	22,100	17,800	33,300	19,500	9,160	20,700	19,200
28	146,000	7,330	12,700	23,500	58,600	17,000	16,800	26,400	12,600	16,800	12,100	19,900
29	156,000	8,510	17,100	14,700	------	16,100	14,500	24,800	22,800	16,700	4,940	19,100
30	125,000	16,300	16,700	14,200	------	18,600	18,000	24,600	27,400	19,800	10,300	17,600
31	113,000	------	15,800	15,500	------	12,300	------	23,200	------	17,600	14,500	------
TOTAL	1,645.5M	1,271.2M	418,340	1,178.6M	953,100	958,810	334,950	628,970	769,300	596,080	471,980	556,230
MEAN	53,080	42,370	13,490	38,020	34,040	30,930	11,170	20,290	25,640	19,230	15,230	18,540
MAX	156,000	105,000	35,100	69,100	58,600	58,800	27,200	46,300	38,300	32,600	35,000	47,600
MIN	4,620	5,390	1,470	11,800	13,200	8,210	2,570	6,670	12,200	6,770	4,710	7,640
AC-FT	3,264M	2,521M	829,800	2,338M	1,890M	1,902M	664,400	1,248M	1,526M	1,182M	936,200	1,103M

CAL YR 1970 TOTAL 14,155,900 MEAN 38,780 MAX 215,000 MIN 1,470 AC-FT 28,080,000
WTR YR 1971 TOTAL 9,782,980 MEAN 26,800 MAX 156,000 MIN 1,470 AC-FT 19,400,000

07264000 Bayou Meto near Lonoke, Ark.

LOCATION.--Lat 34°44'10", long 91°54'58", in SW¼ sec.6, T.1 N., R.8 W., Lonoke County, near left bank on downstream side of bridge on State Highway 31, 3 miles upstream from Brushy Slough, 3.5 miles south of Lonoke, and at mile 106.4.

DRAINAGE AREA.--207 sq mi.

PERIOD OF RECORD.--October 1954 to current year. Gage-height record and results of discharge measurements at site 4.8 miles upstream since June 1948 are contained in reports of Corps of Engineers, Vicksburg district; published as "Big Bayou Meto near Lonoke."

GAGE.--Water-stage recorder. Datum of gage is 199.11 ft above mean sea level. Prior to Feb. 10, 1955, water-stage recorder at site 4.8 miles upstream at datum 6.97 ft higher. Feb. 10 to June 29, 1955, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--17 years, 274 cfs (198,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,140 cfs Dec. 27; maximum gage height, 17.12 ft Dec. 27, 28; minimum discharge, 5.4 cfs Sept. 28; minimum gage height, 3.53 ft Sept. 27-28.

Period of record: Maximum discharge, 4,700 cfs May 18, 1968 (gage height, 26.55 ft); no flow at times in 1955, 1956, 1964.

REMARKS.--Records good. Part of low flow is drainage from areas irrigated with ground water and from large minnow farm supplied with ground water. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SE
1	20	477	46	533	166	242	146	140	101	24	20	33
2	15	417	40	435	150	205	136	107	95	25	20	35
3	12	344	36	404	138	193	118	84	92	27	80	35
4	9.1	276	36	526	134	215	102	67	111	34	200	32
5	8.1	217	34	626	130	304	95	59	123	31	391	34
6	9.9	167	35	697	159	382	86	50	95	38	551	31
7	11	130	31	795	248	407	79	93	69	47	745	27
8	14	103	23	898	253	399	74	160	62	49	835	24
9	40	105	27	929	218	375	68	221	76	44	913	20
10	45	125	27	864	196	347	62	284	71	39	945	17
11	46	190	24	731	175	312	53	319	51	27	906	13
12	52	282	30	576	180	315	47	322	42	21	786	10
13	51	305	26	440	212	351	44	354	37	22	615	10
14	49	292	26	345	350	343	39	427	32	22	419	12
15	45	277	41	281	488	330	40	534	35	18	256	11
16	42	277	67	240	581	312	38	623	41	13	151	9.9
17	41	303	160	223	612	283	38	625	40	8.3	102	10
18	35	293	348	196	573	234	46	552	31	9.8	76	8.7
19	27	274	458	162	471	195	62	407	34	11	66	8.3
20	23	248	511	143	361	164	65	255	36	12	54	8.0
21	19	219	533	129	298	149	75	154	41	10	47	8.2
22	15	176	612	114	298	141	73	105	38	9.5	44	7.8
23	12	136	823	108	340	125	86	71	33	11	54	7.6
24	16	112	891	116	407	105	154	124	40	20	62	7.9
25	19	90	958	150	437	122	308	295	45	25	55	7.7
26	19	73	1,060	269	416	123	408	302	37	20	62	6.7
27	90	64	1,120	319	358	124	425	231	22	17	59	5.9
28	298	57	1,100	305	296	143	369	269	32	15	48	5.9
29	429	55	1,020	267	------	150	277	235	38	20	40	6.4
30	497	52	870	221	------	143	198	167	30	25	34	6.3
31	516	------	692	191	------	147	------	121	------	25	34	------
TOTAL	2,525.1	6,136	11,705	12,235	8,645	7,380	3,811	7,757	1,630	719.6	8,670	459.3
MEAN	81.5	205	378	395	309	238	127	250	54.3	23.2	280	15.3
MAX	516	477	1,120	929	612	407	425	625	123	49	945	35
MIN	8.1	52	23	108	130	105	38	50	22	8.3	20	5.9
AC-FT	5,010	12,170	23,220	24,270	17,150	14,640	7,560	15,390	3,230	1,430	17,200	911

CAL YR 1970 TOTAL 108,174.6 MEAN 296 MAX 2,090 MIN 6.5 AC-FT 214,600
WTR YR 1971 TOTAL 71,673.0 MEAN 196 MAX 1,120 MIN 5.9 AC-FT 142,200

07265450 Mississippi River near Arkansas City, Ark.

LOCATION.--Lat 33°33'55", long 91°14'35", sec.18, T.13 S., R.1 W., Desha County, on right bank 3 miles southwest of Arkansas City, and at mile 554.1.

DRAINAGE AREA.--1,130,600 sq mi, approximately.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. Gage-height records since 1879 are contained in reports of Mississippi River Commission, and U.S. Weather Bureau. Intermittent records of discharge since 1884 and daily discharge since Jan. 1, 1928, in reports of Mississippi River Commission.

GAGE.--Nonrecording gage. Datum of gage is 96.66 ft above mean sea level. Prior to Sept. 3, 1930, at site 4 miles upstream, Sept. 3, 1930, to Feb. 29, 1944, at site 1.9 miles upstream, and Mar. 1, 1944, to Oct. 31, 1948, at site 1.2 miles upstream, all at present datum.

AVERAGE DISCHARGE.--43 years, 532,700 cfs (385,900,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,263,000 cfs Mar. 9 (gage height, 32.71 ft); minimum daily discharge, 236,000 cfs Sept. 7.

Period of record: Maximum discharge, 2,159,000 cfs Feb. 16, 1937; maximum gage height, 53.86 ft Feb. 17, 1937; minimum discharge, 88,200 cfs Oct. 31, 1939.

The flood of 1927 was the greatest since at least 1879. A stage of 60.4 ft occurred on Apr. 21, 1927, prior to levee breaks, at site used prior to 1930, and a discharge of about 2,472,000 cfs occurred in early May.

REMARKS.--Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	483	503	705	509	1,060	738	425	536	370	348	292
2	608	477	493	727	490	1,090	721	435	511	366	335	301
3	633	473	470	739	491	1,130	707	444	491	361	327	288
4	646	479	443	745	489	1,160	690	451	474	352	338	269
5	646	499	419	748	493	1,180	672	455	461	340	347	248
6	641	522	388	725	497	1,210	658	458	458	331	358	243
7	570	530	357	694	487	1,230	646	460	464	326	368	236
8	494	528	338	670	471	1,260	635	462	464	320	379	241
9	455	528	336	656	452	1,260	628	464	464	313	388	248
10	427	531	333	650	448	1,260	619	460	463	303	381	252
11	408	539	343	654	497	1,240	602	469	463	292	389	259
12	393	544	352	660	566	1,180	588	499	457	275	400	263
13	378	549	356	668	621	1,170	572	526	456	254	412	265
14	370	548	356	675	671	1,170	559	557	458	249	423	260
15	372	543	355	686	720	1,160	542	589	452	260	412	254
16	387	553	355	692	768	1,140	529	620	443	283	393	249
17	417	558	360	700	813	1,120	522	653	437	300	363	245
18	472	558	370	702	826	1,090	518	689	431	318	337	247
19	515	547	384	681	828	1,070	508	722	440	334	315	249
20	528	526	405	648	823	1,040	498	758	452	353	293	252
21	533	522	432	612	819	1,030	479	791	468	378	271	270
22	522	521	468	596	817	1,000	458	804	480	393	260	295
23	492	521	510	591	827	972	443	799	491	387	251	313
24	467	513	550	588	851	942	443	780	499	379	242	323
25	442	501	587	582	884	910	445	761	496	388	249	331
26	434	490	611	570	921	880	448	741	487	399	261	322
27	442	487	634	558	961	853	443	719	468	405	275	296
28	461	494	650	549	1,010	829	430	691	438	400	292	289
29	482	499	665	538	------	800	419	658	392	392	297	282
30	507	505	678	529	------	776	414	614	379	384	287	276
31	506	------	690	520	------	750	------	571	------	369	276	------
TOTAL	15,208	15,568	14,191	20,056	19,050	32,962	16,574	18,525	13,873	10,574	10,267	8,158
MEAN	491	519	458	647	680	1,063	552	598	462	341	331	272
MAX	646	558	690	748	1,010	1,260	738	804	536	405	423	331
MIN	370	473	333	520	448	750	414	425	379	249	242	236
AC-FT	30,170	30,880	28,150	39,780	37,790	65,380	32,870	36,740	27,520	20,970	20,360	16,180

CAL YR 1970 TOTAL 213,083 MEAN 584 MAX 1,350 MIN 221.0 AC-FT 422,700
WTR YR 1971 TOTAL 195,006 MEAN 534 MAX 1,260 MIN 236.0 AC-FT 386,800

07337000 Red River at Index, Ark.

LOCATION.--Lat 33°33'07", long 94°02'28", in NW¼SW¼ sec.7, T.14 S., R.28 W., Miller County, near right bank on downstream side of bridge on U.S. Highway 71 at Index, 2.2 miles south of Ogden, 20.6 miles upstream from Little River, and at mile 485.3.

DRAINAGE AREA.--48,030 sq mi, of which 5,936 sq mi is probably noncontributing.

PERIOD OF RECORD.--July 1936 to current year. Gage-height records collected at same site since 1917 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 246.87 ft above mean sea level. Prior to Dec. 12, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 11,720 cfs (8,491,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 27,800 cfs Oct. 30 (gage height, 12.99 ft); minimum, 976 cfs Sept. 30 (gage height, 2.94 ft).
Period of record: Maximum discharge, 297,000 cfs Feb. 23, 1938 (gage height, 34.25 ft); minimum, 378 cfs Nov. 28, 1956.

REMARKS.--Records good. Some regulation since Oct. 31, 1943, by Lake Texoma (Texas), 241 miles upstream (capacity, 5,392,900 acre-ft).

REVISIONS.--WSP 1211: Drainage area.

DISCHARGE, IN CFS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,300	21,400	4,170	5,800	2,300	8,340	3,020	8,600	7,360	1,400	4,000	2,420
2	7,840	16,800	3,160	6,220	2,360	6,880	2,880	7,360	7,360	1,690	5,000	2,880
3	5,200	13,500	3,020	6,660	2,810	6,440	2,540	6,440	5,800	2,060	4,260	2,810
4	3,520	10,300	3,230	6,880	2,600	5,600	2,360	5,200	4,440	1,960	3,440	2,360
5	3,160	7,360	3,020	7,360	2,190	5,400	2,420	4,440	3,600	2,300	2,810	2,010
6	3,020	5,600	3,300	14,900	2,060	5,600	2,180	3,920	3,370	3,370	2,480	1,790
7	2,540	4,800	3,520	18,000	2,060	6,880	1,840	3,520	5,560	3,440	2,670	1,490
8	2,360	4,620	3,600	14,500	2,240	7,600	1,640	3,300	8,080	3,160	2,060	1,400
9	2,060	4,080	3,680	11,500	2,300	6,660	1,490	3,160	7,940	2,670	1,790	1,320
10	1,960	3,600	3,600	9,960	2,240	5,400	1,590	3,370	6,660	2,300	2,180	1,400
11	2,360	3,520	2,880	9,120	2,240	4,170	2,670	8,100	4,800	2,480	2,420	1,590
12	5,260	3,300	2,480	8,860	3,020	3,760	3,370	13,500	3,680	2,880	2,480	1,590
13	11,600	3,370	2,810	8,080	4,260	7,840	3,300	16,800	3,370	3,020	2,540	1,790
14	20,600	3,600	3,230	6,000	5,000	11,200	2,670	16,800	2,950	2,420	3,300	1,900
15	24,800	3,680	3,300	4,800	4,800	11,200	1,960	14,100	2,740	1,690	3,840	1,690
16	25,800	5,400	3,370	5,600	5,200	9,680	1,590	9,960	2,600	1,400	4,620	1,400
17	25,300	8,600	3,300	6,220	5,000	9,120	1,400	6,880	2,360	1,590	5,600	1,160
18	21,900	9,960	2,600	6,220	3,920	9,120	1,320	5,000	2,420	1,490	5,600	1,160
19	18,400	8,600	2,180	5,400	3,160	6,880	1,320	3,920	2,670	2,120	5,000	1,160
20	15,600	6,880	2,120	4,620	2,880	5,000	1,540	3,300	2,880	2,540	5,600	1,090
21	12,800	6,660	3,370	4,080	2,810	3,920	1,790	2,880	2,740	2,670	5,600	1,320
22	9,120	7,120	4,170	3,600	4,270	3,440	2,120	2,810	2,540	2,950	4,350	1,490
23	6,440	6,880	5,000	3,160	6,880	3,160	5,700	3,520	2,880	3,230	3,840	1,320
24	5,000	7,120	5,600	3,370	13,900	2,950	20,800	3,840	2,880	3,600	4,170	1,090
25	4,620	6,880	6,000	4,440	18,400	2,880	24,300	3,600	2,420	4,350	4,620	1,030
26	7,920	5,200	6,660	4,350	15,200	2,810	25,300	3,760	2,120	4,260	4,260	1,030
27	17,400	3,760	7,120	3,520	12,400	2,600	22,800	3,760	1,790	3,300	4,620	1,030
28	22,800	3,300	6,660	3,020	10,900	2,420	22,400	3,160	1,540	3,160	5,000	1,030
29	23,300	4,260	6,000	2,600	------	2,480	13,800	2,740	1,400	3,920	4,620	1,030
30	26,800	4,800	6,000	2,360	------	2,880	10,600	3,020	1,320	3,600	3,920	1,320
31	26,800	------	5,800	2,240	------	3,090	------	4,770	------	3,020	2,740	------
TOTAL	376,580	204,950	124,950	203,440	147,390	175,400	192,710	185,530	112,170	84,040	119,430	46,100
MEAN	12,150	6,832	4,031	6,563	5,264	5,658	6,424	5,985	3,739	2,711	3,853	1,537
MAX	26,800	21,400	7,120	18,000	18,400	11,200	25,300	16,800	8,080	4,350	5,600	2,880
MIN	1,960	3,300	2,120	2,240	2,060	2,420	1,320	2,740	1,320	1,400	1,790	1,030
AC-FT	746,900	406,500	247,800	403,500	292,300	347,900	382,200	368,000	222,500	166,700	236,900	91,440

CAL YR 1970 TOTAL 3,501,800 MEAN 9,594 MAX 62,700 MIN 1,810 AC-FT 6,946,000
WTR YR 1971 TOTAL 1,972,690 MEAN 5,405 MAX 26,800 MIN 1,030 AC-FT 3,913,000

07339500 Rolling Fork near DeQueen, Ark.

LOCATION.--Lat 34°02'51", long 94°24'47", in SW¼SW¼ sec.21, T.8 S., R.32 W., Sevier County, near center of span on downstream side of bridge on U.S. Highway 70, 4 miles west of DeQueen, 6 miles upstream from Rock Creek, and at mile 17.0.

DRAINAGE AREA.--181 sq mi.

RECORDS AVAILABLE.--October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 318.24 ft above mean sea level. Prior to Dec. 16, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 277 cfs (20.78 inches per year, 200,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,160 cfs Oct. 27 (gage height, 11.98 ft); minimum, 1.7 cfs July 6; minimum gage height, 1.66 ft July 6, Sept. 19, 20, 21. 22.
Period of record: Maximum discharge, 54,500 cfs May 13, 1968 (gage height, 23.34 ft); no flow at times in 1948, 1954, 1956.
Flood of Aug. 27, 1947, reached a stage of 25.6 ft, from floodmarks (discharge, 110,000 cfs, from contracted-opening measurement of peak flow).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	124	25	85	39	239	60	89	89	2.6	110	5.5
2	7.1	102	24	75	35	229	55	71	67	2.8	69	5.7
3	6.6	97	22	178	33	270	50	58	62	2.6	101	6.0
4	6.2	82	22	1,310	44	280	46	48	72	2.3	96	6.0
5	5.8	64	20	760	93	269	41	41	108	2.1	86	5.6
6	6.0	52	19	488	196	253	38	37	80	2.1	74	5.4
7	6.2	43	17	352	183	212	34	34	55	3.7	87	6.8
8	6.6	38	16	269	156	165	32	30	42	3.0	105	6.9
9	133	75	15	216	129	138	30	29	33	2.6	84	6.3
10	186	82	15	180	108	122	28	38	27	2.8	57	5.6
11	98	93	15	150	95	129	27	65	22	3.1	40	5.0
12	389	79	15	125	856	133	26	124	18	3.5	30	4.2
13	411	75	14	115	1,020	894	24	97	16	3.3	27	3.5
14	238	134	13	541	599	951	23	75	15	2.9	20	3.0
15	130	284	18	580	426	612	21	59	13	2.5	16	2.8
16	75	244	40	412	317	430	20	46	10	2.2	14	2.5
17	47	186	63	318	245	323	20	37	8.9	3.7	14	2.4
18	33	147	87	256	191	260	26	29	7.6	6.3	13	2.4
19	23	115	83	200	195	234	32	24	6.4	6.9	12	2.3
20	17	94	78	154	182	184	124	20	5.4	9.1	11	2.3
21	13	78	82	126	190	150	195	16	4.6	4.0	10	2.2
22	11	64	833	111	297	130	242	14	4.1	4.0	8.9	2.6
23	13	53	839	99	314	117	613	13	3.8	5.0	8.2	3.9
24	160	43	488	92	261	102	774	39	3.6	81	7.7	3.0
25	309	38	339	83	237	95	448	25	3.3	489	7.0	3.0
26	185	33	245	75	361	94	304	22	2.9	745	6.3	6.5
27	1,620	31	184	65	346	92	223	96	2.6	424	5.7	8.4
28	926	29	145	57	287	85	167	584	2.4	238	5.0	10
29	431	26	118	51	------	78	126	312	2.4	330	5.0	11
30	269	25	101	47	------	71	100	193	2.4	302	4.5	11
31	178	------	96	43	------	65	------	126	------	188	4.5	------
TOTAL	5,946.9	2,630	4,091	7,613	7,435	7,406	3,949	2,491	789.4	2,876.1	1,138.8	151.8
MEAN	192	87.7	132	246	266	239	132	80.4	26.3	92.8	36.7	5.06
MAX	1,620	284	839	1,310	1,020	951	774	584	108	745	110	11
MIN	5.8	25	13	43	33	65	20	13	2.4	2.1	4.5	2.2
CFSM	1.06	.48	.73	1.36	1.47	1.32	.73	.44	.15	.51	.20	.03
IN.	1.22	.54	.84	1.56	1.53	1.52	.81	.51	.16	.59	.23	.03
AC-FT	11,800	5,220	8,110	15,100	14,750	14,690	7,830	4,940	1,570	5,700	2,260	301

CAL YR 1970 TOTAL 89,479.4 MEAN 245 MAX 8,490 MIN 1.3 CFSM 1.35 IN 18.39 AC-FT 177,500
WTR YR 1971 TOTAL 46,518.0 MEAN 127 MAX 1,620 MIN 2.1 CFSM .70 IN 9.56 AC-FT 92,270

PEAK DISCHARGE (BASE, 6,000 CFS).--NO PEAK ABOVE BASE.

07340000 Little River near Horatio, Ark.

LOCATION.--Lat 33°55'10", long 94°23'15", in NE¼ sec.10, T.10 S., R.32 W., Sevier County, near left bank on downstream side of bridge on State Highway 41, 0.9 mile downstream from Rolling Fork, 2 miles southwest of Horatio, 28.5 miles upstream from Cossatot River, and at mile 72.0.

DRAINAGE AREA.--2,674 sq mi.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 272.89 ft above mean sea level. Prior to Feb. 5, 1935, nonrecording gage, and Feb. 5, 1935, to Sept. 13, 1961, water-stage recorder, at site 50 ft upstream at same datum.

AVERAGE DISCHARGE.--41 years, 3,693 cfs (2,676,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 10,300 cfs Oct. 30 (gage height, 16.16 ft); minimum, 172 cfs Sept. 25 (gage height, 4.28 ft).

Period of record: Maximum discharge, 120,000 cfs Mar. 30, 1945 (gage height, 37.70 ft), from rating curve extended above 93,000 cfs; minimum, 1 cfs Aug. 18 to Sept. 1, 1934.

Flood in August 1915, reached a stage of 38.0 ft (discharge, 124,000 cfs).

REMARKS.--Records good. Some regulation since Oct. 3, 1968, by Broken Bow Lake (Oklahoma), 31.4 miles upstream (capacity, 1,368,000 acre-ft), and since June 1, 1969, by Pine Creek Lake (Oklahoma), 73.3 miles upstream (capacity, 465,800 acre-ft). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 857: 1932, 1935-36. WSP 1211: 1931, drainage area. WSP 1561: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,950	6,650	2,620	1,720	1,160	3,380	1,860	3,200	1,430	1,760	1,220	1,080
2	3,120	5,400	1,720	1,460	2,150	4,120	2,000	1,460	1,790	950	950	1,490
3	3,040	5,600	1,440	1,340	2,150	5,000	1,790	1,190	1,560	1,160	750	1,520
4	1,520	4,800	2,000	3,100	2,300	4,700	850	1,720	1,860	501	850	1,490
5	800	4,500	2,380	6,460	2,000	4,500	630	1,160	2,460	409	1,460	925
6	650	4,500	975	6,680	1,430	3,740	975	1,310	2,000	401	1,690	640
7	1,460	5,400	573	6,680	1,860	2,000	1,860	875	1,720	886	1,400	650
8	3,290	4,400	725	6,020	1,340	1,720	2,150	1,160	1,860	1,490	1,100	950
9	2,780	4,120	875	4,400	2,460	2,300	1,620	925	1,160	1,960	950	1,000
10	2,000	4,600	1,050	2,380	2,540	2,460	1,790	2,570	925	1,930	1,160	925
11	1,860	4,020	1,160	2,000	2,460	2,150	750	3,740	1,500	740	1,360	825
12	2,950	1,930	875	2,300	3,560	2,150	488	2,380	1,310	322	3,280	470
13	4,800	1,080	620	2,150	6,020	6,360	900	3,380	975	772	4,500	337
14	5,000	2,690	492	2,860	5,400	8,880	1,620	3,200	675	1,520	3,200	445
15	4,600	2,780	753	4,700	4,210	7,150	1,930	2,150	700	1,130	1,430	542
16	4,120	2,700	1,310	6,130	4,600	5,000	1,860	1,520	1,190	1,330	1,160	510
17	3,560	4,120	1,620	4,210	4,120	5,300	1,760	1,340	1,020	775	1,460	546
18	2,620	4,600	1,280	3,470	4,210	5,300	750	1,860	1,160	373	1,930	393
19	2,150	4,120	1,000	3,830	3,040	4,800	573	1,250	1,280	357	1,790	311
20	1,930	4,210	775	4,700	3,740	4,700	1,940	1,690	542	700	1,660	261
21	2,150	3,290	675	4,020	2,220	3,290	3,040	1,930	337	1,000	1,620	211
22	950	2,000	1,270	3,650	2,860	3,120	3,290	2,150	506	825	700	211
23	700	1,660	3,380	2,220	3,830	2,380	6,030	950	1,100	650	429	197
24	950	2,450	3,560	1,490	6,570	2,860	8,330	1,520	1,050	573	1,100	183
25	3,270	4,700	3,120	1,340	5,600	2,000	8,220	1,490	925	555	1,720	188
26	3,650	3,380	2,220	1,280	5,400	2,700	7,010	1,250	1,020	1,160	1,860	311
27	2,780	1,560	1,860	1,430	5,000	2,380	6,900	2,000	437	1,930	1,560	261
28	7,820	1,220	1,660	2,540	4,020	1,020	6,460	2,540	275	1,720	1,250	334
29	9,940	1,720	1,860	2,950	-------	825	4,900	1,930	1,030	1,860	1,220	963
30	10,100	975	1,930	2,000	-------	1,430	5,500	1,490	1,700	2,000	1,280	1,440
31	8,380	-------	1,860	1,460	-------	1,790	-------	1,100	-------	1,790	825	-------
TOTAL	105,890	105,675	47,650	100,570	96,250	109,505	87,776	56,430	35,497	33,529	46,844	19,609
MEAN	3,416	3,523	1,537	3,257	3,438	3,532	2,926	1,820	1,183	1,082	1,511	654
MAX	10,100	6,650	3,560	6,680	6,570	9,880	8,330	3,740	2,460	2,000	4,500	1,520
MIN	650	975	492	1,280	1,160	825	488	875	275	322	429	183
AC-FT	210,000	209,600	94,530	200,300	190,900	217,200	174,100	111,900	70,410	66,500	92,920	38,890

CAL YR 1970 TOTAL 1,335,342 MEAN 3,658 MAX 27,500 MIN 311 AC-FT 2,649,000
WTR YR 1971 TOTAL 845,633 MEAN 2,317 MAX 10,100 MIN 183 AC-FT 1,677,000

07340300 Cossatot River near Vandervoort, Ark.
(Hydrologic bench-mark station)

LOCATION.--Lat 34°22'46", long 94°14'08", in SE¼NE¼ sec.30, T.4 S., R.30 W., Polk County, near left bank on downstream side of bridge on State Highway 246, 0.3 mile downstream from Brushy Creek, 3.2 miles upstream from Flat Creek, and 7.5 miles east of Vandervoort.

DRAINAGE AREA.--89.4 sq mi.

PERIOD OF RECORD.--June 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 771.88 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 20,100 cfs Oct. 27 (gage height, 16.08 ft), from rating curve extended as explained below; minimum daily, 8.4 cfs Sept. 18.

Period of record: Maximum discharge, 26,900 cfs May 13, 1968 (gage height, 18.13 ft), from rating curve extended above 11,000 cfs on the basis of step-backwater computations; minimum daily, 8.4 cfs Sept. 18, 1971.

Flood of May 6, 1961, reached a stage of about 23.0 ft, from information by local resident (discharge, about 48,000 cfs).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	101	30	61	51	147	82	62	37	23	28	13
2	14	109	28	58	46	226	76	52	34	28	28	13
3	14	94	27	1,060	47	421	69	49	46	23	327	13
4	12	81	26	1,010	326	338	66	46	47	18	250	12
5	12	74	26	483	484	281	63	43	35	16	152	12
6	14	69	25	296	301	232	59	45	29	15	200	12
7	21	66	25	210	219	177	56	43	27	16	276	13
8	54	64	25	164	166	149	53	37	27	15	151	12
9	106	82	25	137	130	134	51	42	36	15	89	12
10	38	81	25	118	109	135	50	115	28	17	58	12
11	36	72	27	97	101	113	48	97	25	14	43	11
12	297	67	29	81	1,460	307	46	72	22	12	36	10
13	128	67	26	329	700	1,720	46	60	20	12	36	9.8
14	82	246	25	715	422	647	46	48	19	11	32	9.2
15	51	242	32	411	288	379	43	41	19	10	29	8.8
16	35	178	100	277	212	260	43	35	18	12	25	8.6
17	28	140	93	217	165	193	43	32	17	15	22	8.5
18	24	114	80	170	135	169	81	29	16	19	20	8.4
19	22	91	72	129	164	147	142	29	15	14	18	45
20	20	75	63	105	147	120	288	26	14	12	17	42
21	18	64	86	93	264	109	397	24	14	12	16	23
22	17	57	970	86	477	106	239	23	14	12	15	19
23	59	50	521	83	326	94	875	25	14	24	17	25
24	206	45	303	94	240	83	474	72	14	69	23	27
25	108	41	212	84	200	96	282	45	15	85	21	27
26	1,140	38	155	78	211	108	192	33	15	40	18	30
27	4,900	36	123	69	179	101	145	123	13	61	17	26
28	744	33	102	64	161	101	110	107	12	83	15	22
29	359	32	85	63	-------	99	92	63	13	125	14	19
30	206	30	76	62	-------	85	75	46	14	59	13	18
31	137	-------	72	59	-------	82	-------	38	-------	37	13	-------
TOTAL	8,918	2,539	3,514	6,963	7,731	7,359	4,332	1,602	669	924	2,019	521.3
MEAN	288	84.6	113	225	276	237	144	51.7	22.3	29.8	65.1	17.4
MAX	4,900	246	970	1,060	1,460	1,720	875	123	47	125	327	45
MIN	12	30	25	58	46	82	43	23	12	10	13	8.4
CFSM	3.22	.95	1.26	2.52	3.09	2.65	1.61	.58	.25	.33	.73	.19
IN.	3.71	1.06	1.46	2.90	3.22	3.06	1.80	.67	.28	.38	.84	.22
AC-FT	17,690	5,040	6,970	13,810	15,330	14,600	8,590	3,180	1,330	1,830	4,000	1,030

CAL YR 1970 TOTAL 64,919.0 MEAN 178 MAX 6,160 MIN 11 CFSM 1.99 IN 27.01 AC-FT 128,800
WTR YR 1971 TOTAL 47,091.3 MEAN 129 MAX 4,900 MIN 8.4 CFSM 1.44 IN 19.60 AC-FT 93,410

PEAK DISCHARGE (BASE, 5,000 CFS).--OCT. 27 (0015) 20,100 CFS (16.08 FT).

07340500 Cossatot River near DeQueen, Ark.

LOCATION.--Lat 34°02'45", long 94°12'42", in NE¼NE¼ sec.29, T.8 S., R.30 W., Sevier County, near right bank on downstream side of bridge on U.S. Highway 71, just downstream from Hale Creek, 7 miles east of DeQueen, and at mile 33.5.

DRAINAGE AREA.--361 sq mi.

PERIOD OF RECORD.--January 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 335.48 ft above mean sea level. Prior to Nov. 9, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 595 cfs (22.38 inches per year, 431,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 13,900 cfs Oct. 27 (gage height, 15.29 ft); minimum, 6.1 cfs July 21; minimum gage height, 2.85 ft Sept. 20, 21.

Period of record: Maximum discharge, 122,000 cfs May 13, 1968 (gage height, 22.60 ft), from rating curve extended above 65,000 cfs on basis of contracted-opening measurement of peak flow; minimum, 1.2 cfs Aug. 30 to Sept. 1, 1943.

REMARKS.--Records good. Records do not include about 1.8 cfs diverted by DeQueen for municipal use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	311	62	207	127	609	183	221	82	13	117	16
2	22	248	59	176	114	591	178	177	69	16	75	15
3	20	233	55	291	106	796	165	145	66	13	226	15
4	19	204	52	3,090	183	823	147	128	68	16	560	14
5	17	173	50	1,710	963	752	136	120	80	20	434	14
6	16	147	47	1,090	996	686	125	110	73	19	341	14
7	17	127	43	803	783	580	116	105	56	16	825	16
8	22	116	41	626	620	458	109	100	45	13	755	15
9	27	236	39	505	480	386	104	110	39	12	444	16
10	87	349	38	421	374	357	101	200	35	13	274	13
11	104	276	38	347	314	347	97	260	36	14	185	13
12	154	218	40	286	1,550	341	89	233	38	11	130	12
13	437	195	41	259	2,290	2,230	83	185	32	9.8	97	11
14	260	345	40	1,050	1,360	2,120	78	151	28	10	78	10
15	183	616	50	1,250	977	1,310	75	121	25	9.5	74	9.7
16	122	570	110	921	760	938	72	98	23	8.1	61	9.3
17	83	434	240	739	607	731	70	77	21	9.7	49	9.2
18	63	332	247	610	483	596	78	64	19	9.7	43	9.1
19	47	265	214	480	555	560	139	54	18	7.8	36	9.6
20	39	218	192	362	582	437	317	46	18	7.0	31	8.9
21	34	183	196	294	619	353	758	42	16	6.5	27	17
22	31	161	2,150	263	1,240	310	782	38	15	9.6	25	47
23	33	132	2,220	243	1,180	288	1,620	41	14	12	23	43
24	40	110	1,200	231	904	256	1,870	92	14	27	25	33
25	237	93	846	230	740	232	1,090	79	14	198	23	31
26	214	84	629	203	868	262	777	105	14	281	19	33
27	6,390	78	469	179	804	268	583	98	13	192	22	32
28	2,360	75	357	158	704	254	433	162	12	114	23	34
29	1,110	72	285	143	------	249	320	210	11	196	22	33
30	708	67	244	139	------	228	273	144	11	305	20	29
31	467	------	233	136	------	197	------	103	------	188	18	------
TOTAL	13,389	6,668	10,527	17,442	21,283	18,545	10,968	3,819	1,005	1,776.7	5,082	579.8
MEAN	432	222	340	563	760	598	366	123	33.5	57.3	164	19.3
MAX	6,390	616	2,220	3,090	2,290	2,230	1,870	260	82	305	825	47
MIN	16	67	38	136	106	197	70	38	11	6.5	18	8.9
CFSM	1.20	.62	.94	1.56	2.11	1.66	1.01	.34	.09	.16	.45	.05
IN.	1.38	.69	1.08	1.80	2.19	1.91	1.13	.39	.10	.18	.52	.06
AC-FT	26,560	13,230	20,880	34,600	42,210	36,780	21,760	7,570	1,990	3,520	10,080	1,150

CAL YR 1970 TOTAL 194,382.3 MEAN 533 MAX 18,100 MIN 8.0 CFSM 1.48 IN 20.03 AC-FT 385,600
WTR YR 1971 TOTAL 111,084.5 MEAN 304 MAX 6,390 MIN 6.5 CFSM .84 IN 11.45 AC-FT 220,300

PEAK DISCHARGE (BASE, 10,000 CFS).--OCT. 27 (1415) 13,900 CFS (15.29 FT).

07341000 Saline River near Dierks, Ark.

LOCATION.--Lat 34°05'45", long 94°05'04", in NW¼SW¼ sec.3, T.8 S., R.29 W., Howard County, near left bank on downstream side of bridge on U.S. Highway 70, 3.5 miles upstream from Holly Creek, 4 miles southwest of Dierks, and at mile 50.7.

DRAINAGE AREA.--124 sq mi.

PERIOD OF RECORD.--May 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 353.09 ft above mean sea level. May 13, 1938, to Aug. 9, 1940, nonrecording gage and Aug. 10, 1940, to Aug. 30, 1951, water-stage recorder, at site 100 ft upstream at same datum.

AVERAGE DISCHARGE.--33 years, 184 cfs (20.15 inches per year, 133,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,370 cfs Dec. 22 (gage height, 8.81 ft); no flow Sept. 21.
Period of record: Maximum discharge, 59,200 cfs May 13, 1968 (gage height, 22.95 ft); no flow at times.
Flood of some time in 1920 reached a stage of 21.9 ft, from information by local resident (discharge, 42,000 cfs).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1007: 1939-42. WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	37	16	67	37	193	90	53	12	.24	25	2.3
2	.68	33	15	57	32	186	49	43	11	1.1	16	2.6
3	1.5	32	14	112	32	289	44	36	9.9	4.1	16	1.9
4	1.5	30	13	443	211	229	39	33	9.0	2.7	15	1.8
5	1.6	25	13	303	610	203	36	31	4.1	1.8	20	1.6
6	2.0	22	12	223	365	181	33	30	5.5	2.3	34	1.3
7	2.0	19	11	176	255	149	31	30	6.7	4.9	72	1.2
8	3.2	18	10	145	195	121	29	30	5.9	5.7	99	1.0
9	7.2	104	10	125	158	108	28	26	5.3	2.4	38	.76
10	4.3	176	9.6	107	129	102	27	35	4.5	1.3	26	.68
11	7.2	114	9.6	93	115	96	26	82	3.9	.84	18	.54
12	22	79	9.9	78	393	108	24	61	3.8	.48	13	.42
13	28	67	9.9	77	410	365	23	36	5.3	.60	7.7	.30
14	27	168	9.9	299	303	350	22	28	3.0	.68	18	.24
15	20	185	15	243	243	265	21	23	2.7	.54	23	.18
16	15	134	51	190	195	203	20	19	2.6	.42	20	.12
17	8.2	108	99	166	165	166	17	15	2.1	.60	15	.06
18	8.7	85	80	144	141	147	29	13	1.7	.48	11	.06
19	7.7	68	65	114	279	145	78	11	1.3	.36	9.0	.12
20	7.2	53	58	93	241	114	126	9.3	1.2	.24	7.4	.06
21	9.7	42	79	82	385	97	217	7.9	1.0	.12	5.7	0
22	4.9	36	496	77	678	90	166	6.7	.60	.18	4.7	.06
23	6.7	31	413	71	422	86	313	6.2	.54	.54	4.3	.24
24	39	26	251	74	295	73	313	18	.54	12	4.3	.18
25	60	23	185	73	237	71	203	29	.48	44	3.3	.30
26	39	20	144	60	271	90	155	36	.42	70	2.7	.60
27	33	20	114	51	209	79	121	27	.36	38	2.4	.54
28	166	19	95	44	174	71	95	34	.24	24	4.3	.42
29	133	19	80	42	------	69	72	28	.24	61	3.8	.36
30	77	17	71	41	------	61	63	20	.18	66	3.0	.68
31	91	------	78	40	------	53	------	16	------	38	2.4	------
TOTAL	790.64	1,810	2,536.9	3,870	7,160	4,514	2,470	873.1	104.18	385.62	504.0	20.62
MEAN	25.5	60.3	81.8	125	256	146	82.3	28.2	3.47	12.4	16.3	.69
MAX	166	185	496	443	678	365	313	82	12	70	72	2.6
MIN	.36	17	9.6	40	32	53	17	6.2	.18	.12	2.4	0
CFSM	.21	.49	.66	1.01	2.06	1.18	.66	.23	.03	.10	.13	.006
IN.	.24	.54	.76	1.16	2.15	1.35	.74	.26	.03	.12	.15	.006
AC-FT	1,570	3,590	5,030	7,680	14,200	8,950	4,900	1,730	207	765	1,000	41

CAL YR 1970 TOTAL 59,364.81 MEAN 163 MAX 3,460 MIN .19 CFSM 1.31 IN 17.81 AC-FT 117,800
WTR YR 1971 TOTAL 25,039.06 MEAN 68.6 MAX 678 MIN 0 CFSM .55 IN 7.51 AC-FT 49,660

PEAK DISCHARGE (BASE, 5,000 CFS).--NO PEAK ABOVE BASE.

07341200 Saline River near Lockesburg, Ark.

LOCATION.--Lat 33°57'43", long 94°03'40", in NW¼SE¼ sec.23, T.9 S., R.29 W., Sevier County, near right bank on downstream side of bridge on State Highway 24, 2 miles downstream from Brushy Creek, 6 miles east of Lockesburg, and at mile 30.

DRAINAGE AREA.--260 sq mi.

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--8 years, 302 cfs (15.77 inches per year, 218,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,370 cfs Feb. 22 (gage height, 10.82 ft); minimum, 1.0 cfs July 19, 21; minimum gage height, 1.86 ft Oct. 4-5, Sept. 21.

Period of record: Maximum discharge, 64,700 cfs May 14, 1968 (gage height, 20.86 ft), from rating curve extended above 23,000 cfs on basis of contracted-opening measurement of peak flow; minimum, 0.20 cfs Nov. 6, 1963, Oct. 29, 1969.

Flood of May 6 or 7, 1961, reached a stage of about 25.7 ft, from floodmarks.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	69	27	103	60	245	72	76	38	1.5	62	5.0
2	1.2	57	25	88	56	246	69	66	31	33	40	6.0
3	1.1	53	24	90	50	711	65	56	27	24	30	5.5
4	1.1	49	23	586	57	496	60	48	24	9.1	24	5.0
5	1.1	44	22	516	577	379	55	45	22	6.5	24	4.3
6	1.1	36	21	346	490	326	50	42	20	6.5	35	3.8
7	1.2	31	19	259	337	209	46	39	15	14	191	3.3
8	3.2	28	18	205	257	217	43	38	14	15	166	3.0
9	11	27	17	176	201	188	41	39	15	9.8	102	2.7
10	16	216	17	154	162	175	39	271	13	9.3	68	2.5
11	18	183	17	138	140	160	38	210	11	6.0	42	2.3
12	42	126	17	118	334	173	36	150	10	3.5	30	2.1
13	65	97	16	107	677	719	34	89	8.6	2.3	39	2.0
14	40	153	16	239	452	719	33	65	7.2	1.8	25	1.8
15	36	285	21	368	349	465	31	51	6.2	1.6	17	1.7
16	27	208	49	273	270	332	29	39	5.6	1.4	27	1.6
17	22	146	103	222	231	255	29	33	4.7	1.4	26	1.5
18	18	121	108	193	192	208	38	28	4.1	1.2	22	1.4
19	12	96	86	160	344	197	89	24	3.5	1.1	18	1.3
20	10	81	76	130	676	170	205	22	2.8	1.1	14	1.2
21	9.3	67	92	111	380	140	468	19	2.3	1.1	11	1.2
22	8.3	58	227	105	1,140	126	292	17	2.8	1.1	9.6	1.3
23	11	49	668	101	729	116	253	16	3.9	1.4	8.1	1.4
24	17	46	390	98	492	105	497	426	2.3	110	7.6	1.6
25	105	38	264	102	374	95	302	214	2.0	162	9.0	1.8
26	91	34	201	93	414	106	213	103	1.8	94	11	2.2
27	62	31	156	81	383	118	163	82	1.6	96	19	2.8
28	91	30	130	72	285	100	132	134	1.4	66	20	2.5
29	208	29	112	66	------	94	101	96	1.3	71	15	2.2
30	145	27	100	65	------	87	86	65	1.2	140	11	2.0
31	94	------	97	63	------	78	------	47	------	100	7.0	------
TOTAL	1,169.9	2,515	3,159	5,426	9,915	7,821	3,607	2,690	303.3	992.7	1,124.1	77.0
MEAN	37.7	83.8	102	175	354	252	120	85.5	10.1	32.0	36.3	2.57
MAX	208	285	668	586	1,140	719	497	426	38	162	191	6.0
MIN	1.1	27	16	63	50	78	29	16	1.2	1.1	7.0	1.2
CFSM	.15	.32	.39	.67	1.36	.97	.46	.33	.04	.12	.14	.010
IN.	.17	.36	.45	.78	1.42	1.12	.52	.38	.04	.14	.16	.01
AC-FT	2,320	4,990	6,270	10,760	19,670	15,510	7,150	5,260	602	1,970	2,230	153

CAL YR 1970 TOTAL 113,622.6 MEAN 311 MAX 7,460 MIN 1.1 CFSM 1.20 IN 16.24 AC-FT 225,400
WTR YR 1971 TOTAL 38,760.0 MEAN 106 MAX 1,140 MIN 1.1 CFSM .41 IN 5.55 AC-FT 76,880

PEAK DISCHARGE (BASE, 5,700 CFS).--NO PEAK ABOVE BASE.

NOTE.--NO GAGE-HEIGHT RECORD AUG. 27 TO SEPT. 28.

07341300 Millwood Lake near Ashdown, Ark.

LOCATION.--Lat 33°41'20", long 93°58'18", in NW¼ sec.26, T.12 S., R.28 W., Little River County, at Millwood Dam on Little River, 9.2 miles east of Ashdown, 9.6 miles upstream from Hudson Creek, and at mile 16.0.

DRAINAGE AREA.--4,144 sq mi.

PERIOD OF RECORD.--August 1966 to current year. Prior to October 1969, published as Millwood Reservoir near Ashdown.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 226,000 acre-ft Dec. 27 (elevation, 259.90 ft); minimum, 96,000 acre-ft Sept. 25 (elevation, 254.73 ft).

Period of record: Maximum contents, 1,457,000 acre-ft May 22, 1968 (elevation, 282.59 ft); minimum since initial filling to conservation pool, 96,000 acre-ft Sept. 26, 1971 (elevation, 254.73 ft).

REMARKS.--Lake is formed by earthfill dam. Outlet works consist of two 5- by 6-foot rectangular sluices. Flows over the spillway are controlled by fourteen 40- by 32-foot taintor gates. Regulated storage began Aug. 16, 1966. Capacity between elevations 257.0 and 287.0 ft is 1,709,000 acre-ft and is reserved for flood-control storage. Lake is used for flood-control, future water-supply, water-quality control, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of flood-control pool........	287.0	1,854,900
Top of conservation pool.........	257.0	145,900
Bottom of lowest outlet..........	223.0	393

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

254	82.5	258	171.4
256	122.5	260	229.0

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205,800	215,000	200,600	213,800	202,900	212,000	205,600	204,100	202,600	207,600	205,300	205,300
2	206,700	211,700	202,900	212,900	203,500	212,300	203,800	200,900	201,800	208,800	204,100	205,800
3	203,500	208,200	204,100	210,600	205,800	211,200	203,200	198,600	200,900	209,100	203,500	207,600
4	203,900	207,000	205,300	210,600	207,900	210,600	202,900	200,000	202,000	209,700	203,800	207,900
5	207,600	205,600	209,400	211,400	208,200	210,800	200,300	202,000	204,100	209,400	206,400	209,100
6	205,000	203,500	210,000	216,200	209,100	215,000	198,900	203,200	206,400	209,100	207,900	209,100
7	203,800	202,000	209,400	215,600	210,800	213,200	200,300	204,400	207,600	207,900	208,500	199,200
8	204,100	200,900	207,600	212,000	209,400	209,400	202,900	204,700	207,900	206,100	209,400	182,600
9	209,400	200,900	206,400	207,500	206,700	207,600	205,000	207,900	206,400	205,600	209,100	166,400
10	208,800	200,900	207,600	200,600	208,700	208,200	205,300	213,500	204,700	206,700	206,700	151,000
11	206,100	200,900	209,700	198,300	209,400	207,600	205,000	215,300	205,000	208,200	206,700	139,400
12	207,000	200,600	211,200	201,800	211,400	210,800	204,400	213,200	206,400	207,600	204,100	128,400
13	208,500	203,200	211,200	205,600	208,200	215,900	205,300	207,900	207,600	206,400	205,300	120,300
14	214,700	205,000	211,700	206,400	209,700	219,200	204,700	207,300	208,200	206,100	207,600	113,600
15	214,100	206,700	215,600	209,100	209,400	218,300	205,600	208,500	207,000	207,600	205,300	107,500
16	212,000	209,400	215,000	215,600	205,300	215,300	207,000	208,800	207,900	208,500	203,500	102,600
17	209,400	213,200	213,800	221,100	206,400	210,300	208,500	207,000	207,900	208,200	203,200	101,400
18	206,700	214,700	212,000	219,500	205,000	211,700	209,700	206,700	206,700	207,900	203,500	101,400
19	205,000	215,000	211,200	214,400	207,300	209,400	207,300	206,400	205,000	208,500	203,800	98,800
20	205,600	213,800	210,000	210,000	209,100	207,900	205,000	205,000	203,500	207,600	205,300	98,600
21	204,400	211,200	208,200	209,100	209,700	205,800	204,700	204,700	205,000	209,100	205,300	96,400
22	204,400	210,600	206,400	207,300	212,000	205,600	206,400	205,300	205,000	208,800	205,300	96,400
23	204,700	206,100	210,800	207,900	212,900	205,800	205,800	206,400	205,100	210,000	204,100	96,400
24	205,000	205,000	218,300	206,100	214,700	205,000	202,900	206,100	205,000	210,000	204,400	96,400
25	206,700	206,700	224,400	203,800	216,900	204,400	204,400	207,000	205,000	208,200	206,100	96,400
26	209,100	208,800	225,300	205,300	217,100	204,400	204,400	207,300	206,400	207,600	208,200	96,400
27	210,800	207,900	226,000	205,600	216,800	206,700	200,900	208,200	207,900	206,100	210,300	96,400
28	213,200	203,900	224,400	207,900	215,000	207,900	198,900	206,700	207,900	206,700	209,100	97,200
29	215,000	200,900	220,200	209,100	-------	205,800	201,200	207,000	206,100	205,600	207,600	97,200
30	216,900	198,900	217,700	207,600	-------	203,200	202,900	206,400	205,000	205,300	206,700	98,400
31	217,100	-------	215,600	204,700	-------	203,200	-------	204,700	-------	205,300	205,600	-------
MAX	217,100	215,000	226,000	221,100	217,100	219,200	209,700	215,300	208,200	210,000	210,300	209,100
MIN	203,500	198,900	200,600	198,300	202,900	203,200	198,900	198,600	200,900	205,300	203,200	96,400
(†)	259.61	258.99	259.56	259.19	259.54	259.14	259.13	259.19	259.20	259.21	259.22	254.85
(‡)	+11,500	-18,200	+16,700	-10,900	+10,300	-11,800	-300	+1,800	+300	+300	+300	-107,200

CAL YR 1970...................... ‡ -16,800
WTR YR 1971...................... ‡ -107,200

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

07341301 Little River at Millwood Dam, near Ashdown, Ark.

LOCATION.--Lat 33°41'20", long 93°58'18", in NW¼ sec.26, T.12 S., R.28 W., Little River County, at Millwood Dam, 9.2 miles east of Ashdown, 9.6 miles upstream from Hudson Creek, and at mile 16.0.

DRAINAGE AREA.--4,144 sq mi.

PERIOD OF RECORD.--October 1966 to current year. Records for October 1965 to September 1966, published in WRD Ark., 1968, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--5 years, 5,602 cfs (4,059,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 13,800 cfs Mar. 15; minimum daily, 196 cfs Sept. 22-29.
Period of record: Maximum daily discharge, 62,700 cfs May 26, 1968; no flow May 17-19, 1968.

REMARKS.--Discharge computations based on gate openings, head and tailwater elevations at Millwood Dam. Flow completely regulated by Millwood Lake since Aug. 16, 1966 (see sta 07341300).

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WRD Ark. 1969: 1967-68.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,400	10,800	1,070	4,110	2,070	6,940	2,210	4,600	2,310	1,640	2,360	1,220
2	2,400	8,880	1,100	3,960	1,140	6,380	2,940	4,570	2,300	1,410	1,640	912
3	2,440	7,560	1,130	3,810	1,510	7,270	2,900	2,330	1,860	848	1,130	912
4	2,450	6,670	1,150	3,730	2,360	7,600	2,860	838	1,090	848	708	912
5	2,410	6,020	1,170	5,250	2,800	6,380	1,750	432	1,120	848	432	912
6	1,300	6,020	1,200	6,540	3,090	5,240	1,100	1,330	1,180	848	1,100	912
7	550	6,020	1,220	8,350	2,360	5,230	1,070	1,490	1,900	1,380	1,940	5,010
8	1,200	6,020	1,190	9,160	3,160	5,040	1,120	845	2,410	2,040	1,940	8,140
9	3,820	6,020	872	9,050	3,720	4,140	1,490	850	2,400	1,570	2,600	8,950
10	3,420	5,440	432	8,600	2,920	3,600	1,860	3,640	1,450	1,160	2,440	9,070
11	2,390	4,740	432	4,010	3,100	3,580	1,860	6,530	739	1,190	1,900	6,820
12	2,420	4,690	432	1,040	6,080	3,700	1,000	6,550	739	1,190	2,800	5,370
13	2,440	3,140	432	1,720	8,760	5,960	940	6,230	739	1,170	3,500	4,340
14	3,930	2,320	432	3,090	8,650	11,400	1,650	4,160	739	1,160	3,560	3,220
15	5,270	2,390	888	3,620	8,630	13,800	1,650	2,420	739	1,160	3,560	3,300
16	5,170	2,460	2,110	3,720	7,950	11,900	1,670	2,420	739	1,170	2,200	3,150
17	5,040	2,540	2,640	4,060	6,690	9,340	1,670	1,850	1,120	1,190	1,120	1,930
18	4,910	4,320	2,590	5,840	5,680	7,470	1,700	1,880	1,430	1,190	1,120	1,310
19	3,360	5,330	2,540	6,730	5,070	7,070	2,400	2,400	1,420	1,180	1,120	1,310
20	2,360	5,300	2,500	6,450	4,280	6,200	3,160	1,920	1,400	1,180	1,120	758
21	2,360	5,170	2,460	6,240	4,660	6,200	3,540	1,650	748	1,400	1,140	317
22	1,710	5,020	2,420	5,210	5,120	5,130	2,610	1,650	208	1,680	1,140	196
23	1,160	4,020	2,420	3,640	5,830	3,540	6,220	1,650	744	1,670	1,140	196
24	1,160	2,360	2,530	3,600	6,690	3,550	9,330	1,650	1,160	1,680	776	196
25	1,160	2,750	2,900	2,690	7,380	3,600	9,230	1,650	750	1,840	523	196
26	1,930	3,540	3,010	1,160	7,500	3,180	10,000	1,690	432	2,380	1,070	196
27	3,940	3,540	2,900	1,160	7,500	2,380	10,200	2,840	432	2,890	1,710	196
28	6,900	3,540	3,790	1,190	7,350	2,420	8,480	3,270	853	2,830	1,710	196
29	8,970	3,480	4,290	2,680	------	2,410	6,090	2,420	1,480	2,830	1,680	196
30	10,700	2,010	4,240	3,730	------	2,360	4,520	2,420	1,650	2,680	1,670	707
31	10,800	------	4,200	3,680	------	1,790	------	2,400	------	2,320	1,660	------
TOTAL	110,470	142,110	60,690	137,820	142,050	174,800	107,220	80,575	36,281	48,572	52,509	71,050
MEAN	3,564	4,737	1,958	4,446	5,073	5,639	3,574	2,599	1,209	1,567	1,694	2,368
MAX	10,800	10,800	4,290	9,160	8,760	13,800	10,200	6,550	2,410	2,890	3,560	9,070
MIN	550	2,010	432	1,040	1,140	1,790	940	432	208	848	432	196
AC-FT	219,100	281,900	120,400	273,400	281,800	346,700	212,700	159,800	71,960	96,340	104,200	140,900

CAL YR 1970 TOTAL 1,950,461 MEAN 5,344 MAX 34,200 MIN 210 AC-FT 3,869,000
WTR YR 1971 TOTAL 1,164,147 MEAN 3,189 MAX 13,800 MIN 196 AC-FT 2,309,000

07341500 Red River at Fulton, Ark.

LOCATION.--Lat 33°36'26", long 93°48'56", in NE¼SE¼ sec.20, T.13 S., R.26 W., Hempstead-Miller County line, near left bank on downstream side of bridge on U.S. Highway 67 at Fulton, 0.2 mile downstream from Missouri Pacific Railroad Co. bridge, 2.5 miles downstream from Little River, and at mile 463.0.

DRAINAGE AREA.--52,380 sq mi, of which 5,936 sq mi is probably noncontributing.

PERIOD OF RECORD.--October 1927 to current year. January 1932 to May 1934 monthly discharge only, published in WSP 1311. Prior to October 1949, published as "at Garland." Gage heights collected in the present vicinity since October 1885 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 224.94 ft above mean sea level. Prior to Oct. 1, 1934 nonrecording gage, and Oct. 1, 1934, to Sept. 30, 1949, water-stage recorder, at Garland 39 miles downstream at different datum. Oct. 1, 1949, to Dec. 31, 1966, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--44 years, 17,240 cfs (12,490,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 38,800 cfs Oct. 31 (gage height, 13.62 ft); minimum daily, 1,200 cfs Sept. 28.

Period of record: Maximum discharge, 338,000 cfs Feb. 24, 1938 (gage height, 36.45 ft, present site and datum); maximum gage height, 37.4 ft Apr. 2, 1945, present site and datum; minimum discharge, 390 cfs Oct. 26, 1956.

REMARKS.--Some regulation by Lake Texoma (Texas), 263 miles upstream (capacity, 5,530,300 acre-ft), since Oct. 31, 1943, and by Millwood Lake since Aug. 16, 1966 (see sta 07341300). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13,000	33,000	6,000	10,000	4,800	18,000	5,400	12,000	8,700	2,800	5,800	3,800
2	11,000	26,000	5,000	9,700	3,300	17,000	5,300	10,000	8,900	2,900	6,200	3,500
3	8,600	21,000	4,400	9,700	3,500	17,000	5,100	7,200	7,700	2,800	5,600	3,700
4	7,100	17,000	4,500	9,300	4,600	16,000	4,600	5,900	5,600	2,600	4,800	3,600
5	6,500	13,000	4,400	11,000	5,000	14,000	3,900	5,700	5,000	2,600	3,900	3,000
6	5,500	11,000	4,500	20,000	5,300	12,000	3,400	6,100	4,700	3,000	3,500	2,700
7	3,900	10,000	4,900	25,000	5,400	13,000	2,900	6,200	6,400	4,100	4,200	2,500
8	3,600	9,600	5,000	22,000	5,400	13,000	2,800	5,800	9,000	4,500	4,100	8,000
9	6,000	9,200	4,800	19,000	5,900	11,000	2,900	6,300	8,900	4,300	3,900	9,100
10	5,300	8,500	4,100	17,000	5,800	9,700	3,100	6,500	6,700	3,900	4,600	9,100
11	4,500	7,600	3,600	12,000	5,000	8,300	3,200	13,000	5,100	3,600	4,100	8,300
12	6,100	7,400	3,400	9,900	6,100	8,100	3,400	19,000	3,800	3,900	4,900	7,000
13	11,000	6,200	3,200	10,000	11,000	17,000	3,900	22,000	3,300	4,400	5,700	6,100
14	22,000	5,800	3,100	9,500	12,000	26,000	3,900	20,000	3,100	4,300	6,100	5,500
15	28,000	5,700	3,600	8,400	13,000	26,000	3,900	16,000	2,800	3,600	6,900	5,000
16	30,000	6,500	4,800	8,800	12,000	23,000	4,000	12,000	2,800	3,100	6,600	4,400
17	31,000	9,000	5,300	9,700	11,000	19,000	3,800	8,300	2,800	2,900	6,000	3,400
18	28,000	12,000	5,000	12,000	8,600	17,000	3,800	6,800	3,000	2,800	6,200	2,600
19	22,000	12,000	4,600	11,000	7,700	14,000	3,800	6,200	3,500	2,800	5,500	2,400
20	18,000	11,000	4,700	10,000	6,500	11,000	4,300	4,900	4,000	3,500	5,800	2,200
21	15,000	11,000	6,100	9,400	6,500	9,500	5,200	4,500	3,900	3,800	6,000	1,400
22	11,000	11,000	6,800	8,500	7,700	8,400	5,300	4,300	2,900	4,300	5,700	1,900
23	7,900	11,000	7,500	6,500	11,000	6,500	5,600	4,400	3,000	4,900	4,900	2,000
24	6,400	8,900	8,200	6,300	21,000	6,200	22,000	5,600	3,700	6,100	4,600	1,800
25	5,800	9,100	8,700	6,800	26,000	6,200	32,000	5,200	3,500	6,300	4,500	1,600
26	7,500	9,200	9,300	5,400	24,000	5,900	34,000	5,200	3,000	7,000	4,800	1,500
27	18,000	7,600	9,800	5,100	22,000	5,600	35,000	5,200	2,800	7,000	5,200	1,500
28	27,000	6,900	11,000	4,300	21,000	6,000	26,000	5,200	2,600	6,500	5,600	1,200
29	30,000	7,400	11,000	4,500	------	5,900	19,000	5,200	2,800	7,000	5,600	1,500
30	36,000	7,100	10,000	5,400	------	4,700	14,000	5,300	2,900	6,900	5,800	1,500
31	38,000	------	9,500	5,000	------	5,100	------	6,200	------	5,900	4,900	------
TOTAL	474,100	330,700	186,800	321,200	281,100	380,100	275,500	256,200	136,900	134,100	162,400	111,800
MEAN	15,290	11,020	6,026	10,360	10,040	12,260	9,183	8,265	4,563	4,326	5,239	3,727
MAX	38,000	33,000	11,000	25,000	26,000	26,000	35,000	22,000	9,000	7,000	6,900	9,100
MIN	3,600	5,700	3,100	4,300	3,300	4,700	2,800	4,300	2,600	2,600	3,500	1,200
AC-FT	940,400	655,900	370,500	637,100	557,600	753,900	546,500	508,200	271,500	266,000	322,100	221,800

CAL YR 1970 TOTAL 5,275,600 MEAN 14,450 MAX 54,000 MIN 1,900 AC-FT 10,460,000
WTR YR 1971 TOTAL 3,050,900 MEAN 8,359 MAX 38,000 MIN 1,200 AC-FT 6,051,000

07348700 Bayou Dorcheat near Springhill, La.

LOCATION.--Lat 32°59'40", long 93°23'47", in NE¼NE¼ sec.16, T.23 N., R.10 W., Webster Parish, near left bank on downstream side of bridge on State Highway 157, 0.4 mile downstream from Crooked Creek, 1.7 miles downstream from Arkansas-Louisiana State line, and 2.8 miles southeast of Springhill city limits.

DRAINAGE AREA.--605 sq mi.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above mean sea level.

AVERAGE DISCHARGE.--14 years, 473 cfs (10.62 inches per year, 342,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,280 cfs May 18 (gage height, 11.93 ft, from floodmark); minimum, 1.9 cfs June 29 (gage height, 2.87 ft).

Period of record: Maximum discharge, 36,400 cfs Apr. 28, 1958 (gage height, 22.79 ft); no flow Oct. 10-14, 1957.

REMARKS.--Records good above 200 cfs and poor below. Water-quality records for the current year are published in Part 2 of the Louisiana report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	67	55	111	340	527	270	120	28	4.5	412	7.3
2	3.8	66	54	114	294	431	269	179	26	3.3	293	6.1
3	3.6	60	52	133	213	355	250	236	26	3.8	224	5.2
4	3.3	51	51	169	163	298	211	232	23	3.9	256	4.7
5	3.1	44	49	182	151	255	172	189	17	3.4	321	4.2
6	3.6	38	48	205	142	230	146	153	14	3.1	406	3.8
7	4.4	33	46	237	147	216	128	146	11	3.8	486	3.4
8	5.8	30	45	253	157	210	115	126	9.6	3.4	553	3.1
9	17	55	44	239	167	206	106	128	7.8	4.1	637	2.9
10	10	57	43	204	168	199	98	182	6.3	4.4	743	2.7
11	9.3	53	42	173	160	185	92	276	5.5	3.6	722	2.6
12	16	68	41	152	171	178	86	614	4.8	3.0	624	2.5
13	22	121	39	137	180	625	81	1,000	4.2	2.5	498	2.4
14	22	266	38	128	188	810	77	1,100	3.6	2.1	332	2.2
15	21	267	39	120	240	816	74	1,150	3.2	2.1	190	2.1
16	24	274	48	113	324	828	70	1,200	3.3	2.3	126	2.1
17	26	315	49	108	362	848	67	1,250	3.1	2.6	122	2.0
18	26	339	50	104	406	841	70	1,260	2.6	3.4	135	2.0
19	24	338	61	98	581	744	74	1,200	2.3	3.3	122	2.0
20	23	300	105	93	715	571	85	1,100	2.1	3.0	90	2.1
21	21	238	143	89	703	420	157	1,000	2.1	2.9	70	2.1
22	18	182	187	86	778	332	327	736	2.5	4.7	50	3.6
23	17	144	250	85	796	269	490	374	2.8	7.5	50	6.2
24	29	118	275	247	828	215	441	160	2.5	107	40	4.0
25	24	100	270	187	842	181	456	103	2.4	131	30	3.1
26	22	86	244	159	819	169	450	77	2.3	190	22	2.8
27	29	76	205	160	745	165	387	62	2.1	418	18	6.4
28	42	68	172	188	638	180	255	50	2.0	663	16	53
29	41	62	148	238	------	289	158	41	2.1	637	14	63
30	41	58	130	290	------	270	127	34	9.4	709	12	44
31	55	------	118	330	------	272	------	29	------	531	9.3	------
TOTAL	610.8	3,974	3,141	5,132	11,418	12,135	5,789	14,507	233.6	3,466.7	7,623.3	253.6
MEAN	19.7	132	101	166	408	391	193	468	7.79	112	246	8.45
MAX	55	339	275	330	842	848	490	1,260	28	709	743	63
MIN	3.1	30	38	85	142	165	67	29	2.0	2.1	9.3	2.0
CFSM	.03	.22	.17	.27	.67	.65	.32	.77	.01	.19	.41	.01
IN.	.04	.24	.19	.32	.70	.75	.36	.89	.01	.21	.47	.02
AC-FT	1,210	7,880	6,230	10,180	22,650	24,070	11,480	28,770	463	6,880	15,120	503

CAL YR 1970 TOTAL 181,876.2 MEAN 498 MAX 5,020 MIN 1.6 CFSM .82 IN 11.18 AC-FT 360,800
WTR YR 1971 TOTAL 68,284.0 MEAN 187 MAX 1,260 MIN 2.0 CFSM .31 IN 4.20 AC-FT 135,400

PEAK DISCHARGE (BASE, 3,000 CFS).--No peak above the base.

07349500 Bodcau Bayou near Sarepta, La.

LOCATION.--Lat 32°54'18", long 93°28'58", in NW¼ sec.15, T.22 N., R.11 W., Bossier-Webster Parish line, on left bank on downstream side of bridge on State Highway 2, 2.1 miles northwest of Sarepta, and 9.5 miles upstream from Caney Creek.

DRAINAGE AREA.--546 sq mi.

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1958, published as Bayou Bodcau near Sarepta.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--33 years, 555 cfs (402,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,200 cfs July 28 (gage height, 12.40 ft); minimum, 1.8 cfs July 14 (gage height, 1.69 ft).
Period of record: Maximum discharge, 18,600 cfs May 2, 1958 (gage height, 25.14 ft); minimum, 0.1 cfs at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft Aug. 14-19, 1954.
Flood of May 22, 23, 1930, exceeded 25 ft, and flood in 1905 may have reached a stage of 27 ft, from information by local residents.

REMARKS.--Records good. Water used by papermill at Springhill is pumped from wells and discharged later as waste into bayou approximately 8 miles above station. This discharge is not continuous but is stored in a reservoir and is released whenever the flow of bayou is sufficient to dilute effluent from mill. Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 miles upstream. Water-quality records for the current year are published in Part 2 of the Louisiana report.

REVISIONS.--WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	309	415	465	182	583	38	7.5	2.4	28	332	2.2
2	20	307	407	453	186	580	29	5.5	8.8	10	73	2.3
3	20	282	392	423	312	586	22	9.0	12	4.6	58	2.6
4	22	235	388	435	423	590	18	13	6.4	5.1	88	3.4
5	45	230	376	414	464	586	14	6.4	3.4	6.8	104	6.4
6	26	243	370	407	476	573	12	4.7	2.9	5.5	120	6.0
7	21	280	368	407	476	519	10	8.5	2.7	15	129	4.7
8	23	308	368	424	470	454	8.3	7.8	2.5	14	109	11
9	26	349	408	452	471	418	6.9	6.2	2.4	5.1	144	13
10	35	360	443	430	477	366	6.8	12	3.6	3.7	135	5.1
11	33	365	450	405	485	294	8.0	32	3.7	3.1	62	4.6
12	57	348	435	379	507	263	11	196	3.9	2.8	28	4.4
13	284	341	420	346	491	547	8.9	301	3.4	2.3	9.5	3.9
14	411	378	422	317	453	757	7.2	298	3.6	1.9	4.4	3.9
15	460	406	427	306	455	901	6.7	191	3.7	1.9	3.2	4.7
16	468	462	439	292	486	854	6.5	71	3.7	2.2	2.9	5.3
17	465	460	445	284	515	722	6.5	25	3.9	2.2	2.4	6.0
18	428	454	514	287	511	543	7.9	10	3.6	2.7	2.9	5.5
19	394	436	593	294	660	356	9.5	5.5	3.1	2.9	7.5	4.7
20	409	427	732	303	683	209	13	4.0	3.2	2.8	10	4.4
21	443	422	710	308	638	118	21	3.2	3.4	4.4	9.8	4.2
22	451	412	714	310	625	149	37	3.4	7.2	5.7	3.9	13
23	446	402	717	311	601	81	277	3.5	11	6.6	2.8	9.8
24	441	427	675	390	612	38	347	3.4	7.8	67	3.7	28
25	399	425	618	444	618	27	191	2.9	5.5	263	5.5	71
26	360	496	566	392	611	28	67	2.7	5.1	447	6.6	48
27	357	518	528	329	608	33	21	2.7	8.5	794	3.7	39
28	350	472	496	271	602	33	12	2.7	8.2	1,110	3.1	24
29	338	429	477	239	------	232	11	2.4	8.2	1,140	2.6	11
30	331	405	469	203	------	126	7.8	1.9	9.5	997	2.4	7.0
31	319	------	471	191	------	62	------	2.0	------	735	2.2	------
TOTAL	7,901	11,388	15,253	10,911	14,098	11,628	1,242.0	1,244.9	157.3	5,692.3	1,471.1	359.1
MEAN	255	380	492	352	504	375	41.4	40.2	5.24	184	47.5	12.0
MAX	468	518	732	465	683	901	347	301	12	1,140	332	71
MIN	19	230	368	191	182	27	6.5	1.9	2.4	1.9	2.2	2.2
AC-FT	15,670	22,590	30,250	21,640	27,960	23,060	2,460	2,470	312	11,290	2,920	712

CAL YR 1970 TOTAL 164,286.3 MEAN 450 MAX 4,220 MIN 4.9 AC-FT 325,900
WTR YR 1971 TOTAL 81,345.7 MEAN 223 MAX 1,140 MIN 1.9 AC-FT 161,300

PEAK DISCHARGE (BASE, 3,000 CFS).--No peak above the base.

07356000 Ouachita River near Mount Ida, Ark.

LOCATION.--Lat 34°36'36", long 93°41'50", in SE¼SW¼ sec.32, T.1 S., R.25 W., Montgomery County, on right bank 300 ft upstream from bridge on U.S. Highway 270, 3.1 miles upstream from Fiddler's Creek, 5.2 miles northwest of Mount Ida, and at mile 553.4.

DRAINAGE AREA.--410 sq mi.

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 655.14 ft above mean sea level. Prior to Dec. 3, 1941, and Mar. 1, 1945, to Apr. 1, 1946, nonrecording gage, Dec. 3, 1941, to Feb. 21, 1945, and Apr. 2, 1946, to Nov. 2, 1949, water-stage recorder, all at site 350 ft downstream at same datum.

AVERAGE DISCHARGE.--30 years, 698 cfs (23.12 inches per year, 505,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 24,600 cfs Oct. 27 (gage height, 21.77 ft); minimum, 21 cfs Sept. 18 (gage height, 1.27 ft).

Period of record: Maximum discharge, 57,300 cfs May 21, 1960 (gage height, 32.18 ft); minimum, 2.3 cfs Aug. 25, 1954 (gage height, 1.03 ft).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1211: 1947(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	715	158	367	276	536	283	308	114	100	84	45
2	69	656	150	318	240	540	259	280	105	110	67	46
3	60	612	140	710	228	878	240	228	101	113	70	44
4	55	500	130	4,120	388	944	222	195	107	85	89	44
5	49	437	120	2,050	1,420	810	207	174	99	72	220	43
6	51	392	114	1,280	1,030	738	195	165	97	62	331	42
7	56	346	106	932	775	657	183	207	88	53	319	39
8	61	325	104	746	652	585	174	675	79	47	415	36
9	111	482	100	643	552	540	165	448	78	43	297	45
10	219	468	100	572	479	679	155	1,270	91	41	204	35
11	201	406	105	510	451	697	148	1,530	83	50	139	30
12	612	356	114	458	4,720	594	140	890	75	39	161	28
13	938	336	112	545	4,150	1,890	134	657	68	33	744	27
14	715	620	108	1,940	2,020	2,270	132	512	61	29	524	26
15	496	974	128	1,620	1,380	1,380	126	413	73	27	379	24
16	378	770	409	1,120	1,050	986	122	343	101	29	287	23
17	283	638	666	872	830	765	119	294	105	55	213	22
18	198	552	528	729	706	648	130	249	85	44	156	21
19	186	482	451	607	702	589	155	210	94	39	122	30
20	150	426	398	512	643	512	192	177	243	32	103	42
21	122	370	395	462	840	448	455	155	113	28	90	49
22	112	332	1,160	427	1,990	409	540	132	86	26	80	43
23	106	290	1,550	402	1,370	378	1,140	120	70	29	72	42
24	210	255	1,100	455	1,010	343	1,570	163	64	39	67	42
25	625	228	810	486	825	343	878	228	58	50	63	44
26	558	216	656	416	800	402	639	204	51	58	58	44
27	19,100	201	552	367	715	385	512	163	47	51	54	43
28	9,360	189	486	332	598	343	430	177	44	55	51	40
29	2,340	174	437	311	------	332	364	210	39	68	50	37
30	1,380	165	402	301	------	322	322	155	99	163	49	33
31	956	------	395	294	------	297	------	126	------	123	44	------
TOTAL	39,837	12,913	12,184	24,904	30,840	21,240	10,331	11,058	2,618	1,793	5,602	1,109
MEAN	1,285	430	393	803	1,101	685	344	357	87.3	57.8	181	37.0
MAX	19,100	974	1,550	4,120	4,720	2,270	1,570	1,530	243	163	744	49
MIN	49	165	100	294	228	297	119	120	39	26	44	21
CFSM	3.13	1.05	.96	1.96	2.69	1.67	.84	.87	.21	.14	.44	.09
IN.	3.61	1.17	1.11	2.26	2.80	1.93	.94	1.00	.24	.16	.51	.10
AC-FT	79,020	25,610	24,170	49,400	61,170	42,130	20,490	21,930	5,190	3,560	11,110	2,200

CAL YR 1970 TOTAL 239,152 MEAN 655 MAX 19,100 MIN 15 CFSM 1.60 IN 21.70 AC-FT 474,400
WTR YR 1971 TOTAL 174,429 MEAN 478 MAX 19,100 MIN 21 CFSM 1.17 IN 15.83 AC-FT 346,000

PEAK DISCHARGE (BASE, 11,000 CFS).--OCT. 27 (2100) 24,600 CFS (21.77 FT).

07357500 Lake Ouachita near Hot Springs, Ark.

LOCATION.--Lat 34°34'20", long 93°11'50", in NE¼ sec.12, T.2 S., R.21 W., Garland County, at Blakely Mountain Dam on Ouachita River, 3.0 miles upstream from Glazypeau Creek, 3.8 miles downstream from Mill Creek, 10 miles northwest of Hot Springs, and at mile 487.0.

DRAINAGE AREA.--1,105 sq mi.

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). July 7, 1952, to July 6, 1953, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 2,164,800 acre-ft Oct. 28 (elevation, 578.34 ft); minimum, 1,833,100 acre-ft Sept. 30 (elevation, 569.57 ft).

Period of record: Maximum contents, 2,609,300 acre-ft May 19, 1968 (elevation, 588.63 ft); minimum since top of conservation pool was first reached, 883,000 acre-ft Jan. 9, 1954 (elevation, 535.86 ft).

REMARKS.--Lake is formed by rolled earthfill dam. The uncontrolled spillway is a channel 200 ft wide located in natural saddle of ridge west of dam, and floodflows may be regulated by operations of three 8- by 15-foot gates. Storage began July 7, 1952. Capacity between elevations 578.0 and 592.0 ft is 617,300 acre-ft and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest....................	592.0	2,768,400
Top of designated power pool............	578.0	2,151,100
Top of conservation pool and bottom of designated power pool..............	535.0	864,900
Bottom of lowest outlet..................	480.0	--

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

569	1,812.9	575	2,033.4
572	1,920.8	579	2,191.4

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,009.00	2,141.00	2,096.00	2,045.00	1,938.00	1,967.00	1,943.00	1,944.00	1,954.00	1,922.00	1,891.00	1,881.00
2	2,008.00	2,136.00	2,092.00	2,042.00	1,930.00	1,964.00	1,944.00	1,944.00	1,953.00	1,923.00	1,890.00	1,880.00
3	2,007.00	2,126.00	2,085.00	2,038.00	1,924.00	1,962.00	1,945.00	1,944.00	1,952.00	1,922.00	1,892.00	1,878.00
4	2,006.00	2,120.00	2,079.00	2,055.00	1,918.00	1,951.00	1,945.00	1,943.00	1,948.00	1,921.00	1,893.00	1,876.00
5	2,004.00	2,113.00	2,074.00	2,062.00	1,919.00	1,946.00	1,946.00	1,943.00	1,944.00	1,920.00	1,894.00	1,875.00
6	2,002.00	2,110.00	2,072.00	2,056.00	1,919.00	1,943.00	1,945.00	1,943.00	1,942.00	1,919.00	1,896.00	1,874.00
7	2,003.00	2,111.00	2,070.00	2,048.00	1,923.00	1,943.00	1,945.00	1,944.00	1,940.00	1,918.00	1,902.00	1,872.00
8	2,002.00	2,112.00	2,062.00	2,039.00	1,926.00	1,941.00	1,944.00	1,944.00	1,940.00	1,915.00	1,902.00	1,871.00
9	2,006.00	2,118.00	2,057.00	2,028.00	1,920.00	1,935.00	1,944.00	1,944.00	1,942.00	1,913.00	1,903.00	1,868.00
10	2,003.00	2,121.00	2,053.00	2,018.00	1,914.00	1,933.00	1,944.00	1,948.00	1,940.00	1,913.00	1,902.00	1,866.00
11	2,002.00	2,119.00	2,050.00	2,016.00	1,908.00	1,927.00	1,944.00	1,952.00	1,940.00	1,911.00	1,901.00	1,865.00
12	2,006.00	2,118.00	2,048.00	2,006.00	1,924.00	1,925.00	1,944.00	1,956.00	1,939.00	1,910.00	1,901.00	1,864.00
13	2,009.00	2,116.00	2,045.00	1,997.00	1,948.00	1,927.00	1,944.00	1,959.00	1,938.00	1,908.00	1,902.00	1,862.00
14	2,011.00	2,117.00	2,043.00	1,993.00	1,958.00	1,932.00	1,943.00	1,959.00	1,938.00	1,906.00	1,902.00	1,859.00
15	2,011.00	2,119.00	2,039.00	1,991.00	1,966.00	1,939.00	1,943.00	1,959.00	1,938.00	1,904.00	1,903.00	1,856.00
16	2,011.00	2,120.00	2,042.00	1,988.00	1,969.00	1,943.00	1,942.00	1,959.00	1,939.00	1,902.00	1,902.00	1,854.00
17	2,010.00	2,118.00	2,043.00	1,989.00	1,968.00	1,946.00	1,941.00	1,958.00	1,938.00	1,902.00	1,902.00	1,852.00
18	2,010.00	2,119.00	2,042.00	1,988.00	1,967.00	1,948.00	1,940.00	1,957.00	1,937.00	1,900.00	1,901.00	1,850.00
19	2,010.00	2,118.00	2,045.00	1,983.00	1,970.00	1,952.00	1,940.00	1,956.00	1,936.00	1,899.00	1,900.00	1,850.00
20	2,009.00	2,118.00	2,046.00	1,975.00	1,972.00	1,950.00	1,936.00	1,956.00	1,935.00	1,897.00	1,899.00	1,850.00
21	2,009.00	2,116.00	2,047.00	1,970.00	1,974.00	1,948.00	1,930.00	1,954.00	1,934.00	1,895.00	1,897.00	1,846.00
22	2,008.00	2,116.00	2,056.00	1,965.00	1,979.00	1,948.00	1,928.00	1,953.00	1,934.00	1,894.00	1,896.00	1,844.00
23	2,008.00	2,117.00	2,066.00	1,961.00	1,980.00	1,947.00	1,932.00	1,952.00	1,933.00	1,892.00	1,895.00	1,843.00
24	2,018.00	2,110.00	2,067.00	1,963.00	1,980.00	1,947.00	1,936.00	1,954.00	1,932.00	1,893.00	1,894.00	1,842.00
25	2,018.00	2,103.00	2,064.00	1,963.00	1,977.00	1,945.00	1,940.00	1,956.00	1,930.00	1,894.00	1,892.00	1,841.00
26	2,019.00	2,097.00	2,062.00	1,961.00	1,976.00	1,943.00	1,942.00	1,954.00	1,928.00	1,893.00	1,890.00	1,841.00
27	2,098.00	2,097.00	2,060.00	1,957.00	1,971.00	1,939.00	1,944.00	1,956.00	1,926.00	1,892.00	1,889.00	1,840.00
28	2,154.00	2,098.00	2,056.00	1,952.00	1,969.00	1,940.00	1,944.00	1,955.00	1,925.00	1,891.00	1,887.00	1,838.00
29	2,164.00	2,098.00	2,053.00	1,946.00	------	1,943.00	1,943.00	1,955.00	1,924.00	1,893.00	1,885.00	1,836.00
30	2,158.00	2,099.00	2,050.00	1,941.00	------	1,943.00	1,943.00	1,954.00	1,922.00	1,894.00	1,884.00	1,834.00
31	2,150.00	------	2,048.00	1,939.00	------	1,943.00	------	1,953.00	------	1,893.00	1,882.00	------
MAX	2,164.00	2,141.00	2,096.00	2,062.00	1,980.00	1,967.00	1,946.00	1,959.00	1,954.00	1,923.00	1,903.00	1,881.00
MIN	2,002.00	2,097.00	2,039.00	1,939.00	1,908.00	1,925.00	1,928.00	1,943.00	1,922.00	1,891.00	1,882.00	1,834.00
(†)	577.81	576.62	575.29	572.47	573.23	572.61	572.62	572.87	572.03	571.19	570.93	569.57
(‡)	+134.5	-47.1	-51.8	-106.4	+28.2	-23.1	+.4	+9.3	-31.1	-30.7	-9.4	-48.7

CAL YR 1970.......................... ‡ +9.6
WTR YR 1971.......................... ‡-17.6

† Elevation, in feet, at 2400 at end of month.
‡ Change in contents, in thousands of acre-feet.

07357501 Ouachita River at Blakely Mountain Dam, near Hot Springs, Ark.

LOCATION.--Lat 34°34'17", long 93°11'23", in NE¼ sec.12, T.2 S., R.21 W., Garland County, in outlet of power tunnel at Blakely Mountain Dam, 2.3 miles upstream from Glazypeau Creek, 10 miles northwest of Hot Springs, and at mile 486.9.

DRAINAGE AREA.--1,105 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. October 1950 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to July 20, 1950, nonrecording gage, and July 20, 1950, to Mar. 17, 1952, water-stage recorder at site 2,000 ft downstream at datum 395.92 ft above mean sea level. Mar. 18, 1952, to Aug. 29, 1955, water-stage recorder at site 1,700 ft downstream at present datum.

AVERAGE DISCHARGE.--21 years, 1,361 cfs (986,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 6,810 cfs Mar. 3; minimum daily, 20 cfs at times.
Period of record: Maximum daily discharge since storage began, 9,550 cfs June 13, 1968; minimum daily, 20 cfs at times (estimated leakage).

REMARKS.--Discharge computed from flowmeter and estimated leakage. Flow completely regulated by Lake Ouachita since July 1952. (See sta 07357500.) Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	4,320	2,550	1,950	3,770	2,330	20	398	707	33	346	509
2	485	6,580	3,460	2,130	4,040	4,460	174	429	585	284	258	534
3	449	6,230	3,750	2,380	3,950	6,810	321	392	2,060	294	373	800
4	502	3,080	2,600	4,830	3,140	6,400	426	257	1,890	366	816	543
5	435	1,520	1,350	5,840	1,600	4,230	801	375	1,340	692	316	322
6	387	548	892	6,570	503	2,300	147	579	433	477	322	658
7	452	20	3,720	6,230	372	1,750	281	824	204	1,610	400	746
8	20	20	2,880	6,640	3,460	3,950	296	599	33	582	507	1,200
9	747	670	2,040	6,560	4,420	3,740	239	292	448	292	644	952
10	408	1,560	2,330	4,370	3,650	3,760	292	610	155	571	701	524
11	202	1,300	2,110	5,060	2,620	3,460	439	782	262	576	284	492
12	476	1,770	1,120	5,500	2,300	2,120	344	162	462	508	515	826
13	208	2,710	845	5,080	1,470	2,320	621	520	371	800	235	1,180
14	493	1,090	2,370	5,190	36	284	499	669	406	900	353	1,130
15	233	786	2,180	5,120	761	432	461	632	367	654	435	571
16	482	2,750	1,290	2,200	2,810	179	652	690	448	536	564	549
17	508	1,510	1,480	1,490	2,420	20	547	640	321	720	563	530
18	407	934	296	4,010	920	295	426	733	456	499	450	432
19	459	1,550	195	4,600	1,780	1,840	2,790	681	326	567	562	244
20	300	1,010	1,660	4,050	339	1,320	3,200	663	483	626	621	753
21	329	354	2,170	3,540	1,350	575	2,040	626	306	169	424	534
22	312	656	1,580	2,980	4,590	1,680	1,030	379	638	686	450	483
23	77	3,170	2,740	1,050	3,140	633	529	251	386	490	644	467
24	20	3,690	3,850	485	3,380	1,400	20	390	665	142	915	384
25	426	3,390	2,940	2,220	2,080	3,190	20	505	717	452	957	383
26	278	417	2,400	2,580	5,530	2,790	328	546	616	557	519	414
27	4,760	65	2,970	3,700	2,190	386	1,460	544	525	334	596	674
28	6,670	260	2,960	3,600	1,980	20	323	242	583	20	473	1,420
29	6,670	20	1,840	3,160	------	433	214	496	547	55	531	937
30	6,690	1,550	2,560	1,510	------	285	304	247	568	357	498	223
31	6,580	------	2,560	1,250	------	124	------	477	------	475	493	------
TOTAL	40,845	53,530	67,688	115,875	68,601	63,516	19,244	15,634	17,308	15,324	15,765	19,454
MEAN	1,318	1,784	2,183	3,738	2,450	2,049	641	504	577	494	509	648
MAX	6,690	6,580	3,850	6,640	5,530	6,810	3,200	824	2,060	1,610	957	1,420
MIN	20	20	195	485	36	20	20	162	33	20	235	223
AC-FT	81,020	106,200	134,300	229,800	136,100	126,000	38,170	31,010	34,330	30,400	31,270	38,590

CAL YR 1970 TOTAL 566,900 MEAN 1,553 MAX 6,720 MIN 20 AC-FT 1,124,000
WTR YR 1971 TOTAL 512,784 MEAN 1,405 MAX 6,810 MIN 20 AC-FT 1,017,000

07358500 Lake Hamilton near Hot Springs, Ark.

LOCATION.--Lat 34°26'30", long 93°01'30", in sec.27, T.3 S., R.19 W., Garland County, at Carpenter Dam on Ouachita River, 1.5 miles downstream from Hot Springs Creek, and 4.5 miles southeast of Hot Springs.

DRAINAGE AREA.--1,441 sq mi.

PERIOD OF RECORD.--December 1930 to current year. Monthend contents prior to October 1950, published in WSP 1311; October 1950 to September 1960 published in WSP 1731; October 1960 to September 1965 published in WSP 1920.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents observed, 187,100 acre-ft Oct. 31 (elevation, 399.56 ft); minimum observed, 157,400 acre-ft Dec. 31 (elevation, 394.96 ft).

Period of record: Maximum contents, 208,100 acre-ft Mar. 31, 1945 (elevation, 402.28 ft); minimum since top of gates was first reached, 70,600 acre-ft Feb. 13, 14, 16, 1936 (elevation, 375.01 ft).

REMARKS.--Lake is formed by concrete-gravity dam. Storage began Dec. 17, 1930. Capacity at top of taintor gates, 190,100 acre-ft (elevation, 400 ft); at spillway crest, 70,560 acre-ft (elevation, 375 ft). Contents below spillway crest represents dead storage. Lake is used for power development. Figures given herein represent total contents.

COOPERATION.--Records furnished by Arkansas Power and Light Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	398.98	183,000	--
OCT. 31	399.56	187,100	+4,100
NOV. 30	395.46	160,500	-26,600
DEC. 31	394.96	157,400	-3,100
CALENDAR YEAR 1970	-	-	+600
JAN. 31	395.28	159,400	+2,000
FEB. 28	395.30	159,500	+100
MAR. 31	398.04	176,800	+17,300
APR. 30	397.90	175,900	-900
MAY 31	398.85	182,200	+6,300
JUNE 30	399.01	183,200	+1,000
JULY 31	398.89	182,400	-800
AUG. 31	398.89	182,400	0
SEPT. 30	398.81	182,600	+200
WATER YEAR 1971	-	-	-400

† Elevation at 2400 hours.

07359000 Lake Catherine at Jones Mill, Ark.

LOCATION.--Lat 34°25'35", long 92°53'40", in SW¼NW¼ sec.36, T.3 S., R.18 W., Hot Spring County, at Remmel Dam on Ouachita River at Jones Mill.

DRAINAGE AREA.--1,516 sq mi.

PERIOD OF RECORD.--October 1924 to current year. Monthend contents prior to October 1950, published in WSP 1311; October 1950 to September 1960 published in WSP 1731; October 1960 to September 1965 published in WSP 1920.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Jan. 10, 1956, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents observed, 34,960 acre-ft Oct. 31 (elevation, 304.85 ft); minimum observed, 23,760 acre-ft Jan. 31 (elevation, 298.20 ft).

Period of record: Maximum contents, 59,160 acre-ft Apr. 21, 1927 (elevation, 315.75 ft); minimum since top of gates was first reached, 16,370 acre-ft Feb. 7, 1925 (elevation, 292.34 ft).

REMARKS.--Lake is formed by concrete-gravity dam. Storage began Oct. 11, 1924. Capacity at top of taintor gates, 35,250 acre-ft (elevation, 305 ft); at spillway crest, 13,950 acre-ft (elevation, 290 ft). Contents below spillway crest represents dead storage. Lake is used for power development. Figures given herein represent total contents.

COOPERATION.--Records furnished by Arkansas Power and Light Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	304.50	34,300	--
OCT. 31	304.85	34,960	+660
NOV. 30	304.60	34,490	-470
DEC. 31	299.43	25,600	-8,890
CALENDAR YEAR 1970	-	-	-4,860
JAN. 31	298.20	23,760	-1,840
FEB. 28	298.24	23,820	+60
MAR. 31	304.50	34,300	+10,480
APR. 30	304.50	34,300	0
MAY 31	304.50	34,300	0
JUNE 30	304.73	34,730	+430
JULY 31	304.55	34,390	-340
AUG. 31	304.51	34,310	-80
SEPT. 30	304.50	34,300	-10
WATER YEAR 1971	-	-	0

† Elevation at 2400 hours.

07359500 Ouachita River near Malvern, Ark.

LOCATION.--Lat 34°23'10", long 92°50'20", in NW¼ sec.16, T.4 S., R.17 W., Hot Spring County, near right bank on downstream side of bridge on State Highway 84, 2 miles northwest of Malvern, 5.8 miles downstream from Remmel Dam, and at mile 450.1.

DRAINAGE AREA.--1,562 sq mi.

PERIOD OF RECORD.--March 1903 to April 1905, June 1922 to September 1925 (fragmentrary), October 1925 to April 1927, January 1928 to current year. Published as "at Remmel Dam, near Malvern" January 1925 to March 1937.

GAGE.--Water-stage recorder. Datum of gage is 228.05 ft above mean sea level. March 1903 to April 1905, nonrecording gage at same site at datum 2.0 ft higher. June 1922 to September 1924, nonrecording gage at present site and datum. January 1925 to March 1937, water-stage recorder at Remmel Dam, 5.8 miles upstream at datum 20.11 ft higher.

AVERAGE DISCHARGE.--44 years (1925-26, 1928-71), 2,286 cfs (1,656,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 12,200 cfs Oct. 27 (gage height, 10.02 ft); minimum, 53 cfs Oct. 4 (gage height, 0.44 ft); minimum daily, 222 cfs June 8.

Period of record: Maximum discharge, 140,000 cfs May 15, 1923 (gage height, 30.3 ft); minimum, 35 cfs Sept. 18, 1955; minimum daily observed, 40 cfs Dec. 18-20, 1904.

REMARKS.--Records good. Flow regulated by Lake Catherine, 5.8 miles upstream, since 1925 (see sta 07359000), by Lake Hamilton since 1932 (see sta 07358500), and by Lake Ouachita since July 1952 (see sta 07357500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 587: 1923. WSP 857: 1923(M). WSP 977: 1942. WSP 1211: Drainage area. WSP 1391: 1903-04.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	416	5,870	3,550	3,160	3,720	2,300	620	430	970	666	427	419
2	525	8,160	4,490	2,290	4,110	3,260	414	378	770	776	436	648
3	400	6,550	3,560	3,180	3,890	6,850	454	511	1,880	376	967	896
4	324	3,340	3,380	8,380	4,030	4,780	514	450	1,760	456	1,910	468
5	432	2,430	1,320	8,870	2,800	3,630	1,050	427	1,960	1,180	3,180	394
6	513	666	1,350	7,130	824	2,820	560	429	474	459	1,960	593
7	432	734	2,930	7,800	1,370	2,150	384	585	502	1,480	1,740	724
8	800	871	3,240	7,300	3,590	3,670	480	427	222	886	798	927
9	571	1,590	3,190	6,710	4,530	3,920	428	431	463	432	1,230	990
10	380	1,840	2,380	4,830	4,220	3,290	430	606	499	544	611	702
11	495	1,800	3,370	5,690	3,060	3,210	473	427	436	526	762	438
12	723	1,900	1,910	6,070	6,100	2,550	519	441	429	445	1,490	709
13	501	3,210	872	5,960	4,070	3,890	806	428	433	794	481	1,170
14	395	2,660	1,830	5,980	1,590	1,020	402	422	446	877	476	1,040
15	501	2,510	3,160	5,490	2,350	730	641	420	591	800	636	495
16	454	2,810	3,410	2,490	3,530	492	1,130	359	433	458	602	432
17	342	3,350	2,160	1,730	2,650	760	415	520	424	525	730	477
18	489	3,080	1,360	4,150	2,180	1,590	521	665	438	450	448	489
19	538	2,420	1,080	5,140	2,920	1,320	2,170	598	410	543	626	320
20	410	2,730	1,820	4,310	1,170	2,170	3,310	542	426	447	665	597
21	416	1,590	2,850	4,320	3,240	549	2,300	500	437	433	438	410
22	416	859	3,660	3,690	6,320	2,220	1,320	355	474	417	432	311
23	483	3,740	4,250	1,510	4,070	993	1,560	399	426	516	894	551
24	532	4,940	5,440	1,930	4,170	1,210	380	1,560	709	2,750	810	432
25	460	4,450	3,600	2,350	2,560	3,540	429	463	443	721	845	390
26	427	1,840	3,210	2,460	6,840	4,320	573	727	520	456	605	410
27	7,610	1,280	3,430	3,900	2,600	771	1,000	504	555	614	596	737
28	9,140	377	3,500	3,780	2,490	1,300	1,180	539	697	964	416	1,100
29	7,550	519	3,350	3,260	-------	469	372	328	497	758	551	1,060
30	5,930	1,960	2,440	1,980	-------	547	457	351	416	599	591	558
31	5,900	-------	3,860	1,580	-------	509	-------	596	-------	447	444	-------
TOTAL	48,505	80,076	89,952	137,420	94,994	70,830	25,292	15,818	19,140	21,795	26,797	18,887
MEAN	1,565	2,669	2,902	4,433	3,393	2,285	843	510	638	703	864	630
MAX	9,140	8,160	5,440	8,870	6,840	6,850	3,310	1,560	1,960	2,750	3,180	1,170
MIN	324	377	872	1,510	824	469	372	328	222	376	416	311
AC-FT	96,210	158,800	178,400	272,600	188,400	140,500	50,170	31,380	37,960	43,230	53,150	37,460

CAL YR 1970 TOTAL 828,032 MEAN 2,269 MAX 13,800 MIN 303 AC-FT 1,642,000
WTR YR 1971 TOTAL 649,506 MEAN 1,779 MAX 9,140 MIN 222 AC-FT 1,288,000

07359900 DeGray Lake near Arkadelphia, Ark.

LOCATION.--Lat 34°12'54", long 93°06'46", in NW¼SW¼ sec.14, T.6 S., R.20 W., Clark County, at DeGray Dam on Caddo River, 2.5 miles upstream from DeGray Creek, 3.3 miles northwest of Caddo Valley, 7.4 miles northwest of Arkadelphia, and at mile 7.9.

DRAINAGE AREA.--453 sq mi.

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Recording gage. Datum of gage is at mean sea level. Prior to Jan. 29, 1971, nonrecording gage at same site and datum.

EXTREMES.--August to September 1969: Maximum contents, 7,900 acre-ft Sept. 30 (elevation, 260.60 ft), minimum, 2,090 acre-ft Aug. 7 (elevation, 240.00 ft).
Water year 1970: Maximum contents, 459,600 acre-ft May 12 (elevation, 391.30 ft); minimum, 7,900 acre-ft Oct. 1 (elevation, 260.60 ft).
Water year 1971: Maximum contents, 485,400 acre-ft Aug. 17 (elevation, 393.80 ft); minimum, 284,600 acre-ft Oct. 6 (elevation, 370.48 ft).

REMARKS.--Lake is formed by rolled earthfill dam with an uncontrolled 200-ft-wide spillway located in natural saddle 4,000 ft east of left abutment of dam. The outlet works has portals to withdraw water from three different elevations. A regulating dam is located downstream from main dam. Storage began Aug. 7, 1969. Capacity between elevations 408.0 ft and 423.0 ft is 227,200 acre-ft, and is reserved for flood-control storage. Capacity between 367.0 ft and 408.0 ft is 393,200 acre-ft, and is reserved for water supply and power generation. Capacity below 367.0 ft is 261,500 acre-ft, and is conservation storage. Lake is used for flood-control, power-development, water-supply, pollution-abatement, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Spillway crest..................	423.0	881,900
Top of power pool...............	408.0	654,700
Top of conservation pool........	367.0	261,500
Bottom of lowest outlet.........	345.0	148,700

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-feet)

240	2,090	260	7,660	300	37,350	340	129,800	380	356,300
245	3,100	270	12,230	310	52,280	350	169,900	390	446,600
250	4,360	280	18,330	320	72,030	360	219,800	394	487,500
255	5,880	290	37,350	330	97,550	370	281,300		

CONTENTS, IN ACRE-FEET, AT 0800, AUGUST 1969 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												5,600
2												5,700
3												5,800
4												5,800
5												5,900
6												6,000
7											2,100	6,100
8											2,300	6,200
9											2,600	6,300
10											2,800	6,400
11											3,000	6,500
12											3,200	6,600
13											3,300	6,600
14											3,500	6,700
15											3,600	6,700
16											3,700	6,800
17											3,900	6,800
18											4,000	6,900
19											4,200	7,000
20											4,300	7,100
21											4,400	7,200
22											4,500	7,300
23											4,700	7,400
24											4,800	7,400
25											4,900	7,500
26											5,000	7,600
27											5,000	7,700
28											5,200	7,800
29					------						5,300	7,800
30					------						5,400	7,900
31		------			------		------		------		5,500	------
MAX												7,900
MIN												5,600
(†)											253.70	260.60
(‡)											3,400	2,400

† Elevation, in feet, at 2400 at end of month.
‡ Change in contents, in acre-feet.

07359900 DeGray Lake near Arkadelphia, Ark.--continued

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,900	11,500	38,400	103,300	136,400	193,300	312,600	446,400	327,200	283,200	284,100	284,700
2	8,000	12,200	38,600	107,100	138,600	198,300	313,400	450,100	327,800	283,200	284,200	284,600
3	8,000	12,700	38,900	110,000	143,600	205,900	314,100	452,600	325,500	283,200	284,100	284,500
4	8,100	13,000	39,100	112,200	147,100	237,000	314,800	454,900	321,900	283,000	284,100	284,600
5	8,100	13,200	39,300	113,800	149,400	245,900	315,200	455,600	318,200	283,000	284,200	284,700
6	8,200	13,500	39,700	115,200	151,800	250,100	315,600	456,600	314,900	282,800	284,300	284,700
7	8,300	13,700	40,800	117,900	154,400	257,100	316,100	457,600	309,800	282,700	284,500	284,700
8	8,400	13,900	42,300	121,700	157,000	259,700	316,400	457,800	306,000	282,700	284,500	284,700
9	8,400	14,000	43,600	122,000	158,800	261,600	316,900	458,500	302,800	282,700	284,700	284,700
10	8,400	14,200	44,600	122,900	159,700	263,400	317,200	458,600	299,500	282,700	284,400	284,700
11	8,500	14,300	45,500	124,100	159,900	266,100	317,700	459,400	295,900	282,700	284,500	284,400
12	8,600	14,500	46,300	125,100	160,200	267,830	317,900	459,600	293,400	283,800	284,500	284,400
13	8,700	14,700	46,900	126,300	160,500	270,000	318,100	455,900	291,100	283,800	284,500	284,100
14	8,800	14,900	47,400	127,300	160,800	272,000	318,600	448,100	289,000	283,400	284,300	284,100
15	8,900	15,100	47,800	128,200	161,200	273,700	318,700	441,500	287,400	283,500	284,200	284,000
16	9,000	15,300	48,100	129,000	167,300	274,700	319,200	434,700	285,900	283,500	284,300	284,000
17	9,200	15,500	48,500	129,700	172,100	277,100	320,700	428,100	284,400	283,800	284,300	284,100
18	9,300	16,000	48,700	130,200	175,300	283,800	326,200	421,400	283,400	284,100	284,300	284,900
19	9,400	26,200	49,100	131,100	177,900	289,700	335,500	413,900	282,500	284,200	284,200	285,200
20	9,500	30,900	49,300	131,600	179,200	294,300	367,300	406,600	282,300	284,200	284,100	285,100
21	9,600	32,600	49,800	132,000	181,300	296,900	376,000	398,400	282,500	284,200	284,100	284,900
22	9,700	34,000	50,100	132,600	182,400	299,600	380,000	390,400	282,100	284,200	284,100	285,200
23	9,800	34,900	50,400	133,000	183,700	301,800	383,400	382,500	282,300	284,000	284,300	285,200
24	9,800	35,600	50,700	133,400	184,800	303,900	386,700	374,900	282,600	284,100	284,300	285,400
25	9,900	36,300	51,100	133,800	186,200	305,300	390,300	367,900	282,700	284,000	284,700	285,100
26	10,000	36,800	51,600	134,300	188,100	306,800	410,300	361,000	282,700	283,900	284,700	285,400
27	10,000	37,200	52,100	134,800	189,600	309,000	427,100	354,900	282,900	283,900	284,700	285,300
28	10,100	37,500	52,600	135,200	191,000	309,100	433,900	348,200	282,700	284,000	284,700	285,000
29	10,200	37,900	68,100	135,900	------	309,800	436,000	341,800	282,900	283,900	284,700	285,000
30	10,300	38,100	83,100	135,900	------	311,200	440,800	336,400	283,000	284,100	284,500	284,900
31	10,500	------	96,200	136,200	------	311,900	------	331,100	------	284,100	284,700	------
MAX	10,500	38,100	96,200	136,200	191,000	311,900	440,800	459,600	327,800	284,200	284,700	285,400
MIN	7,900	11,500	38,400	103,300	136,400	193,300	312,600	331,100	282,100	282,700	284,100	284,000
(†)	267.00	300.60	331.30	341.80	354.80	374.36	389.75	376.46	370.26	370.40	370.47	370.51
(‡)	+2,800	+27,400	+63,300	+35,000	+56,100	+119,900	+131,700	-115,900	-45,100	+1,000	+400	+300

CAL YR 1969...................... -
WTR YR 1970...................... ‡ +276,900

† Elevation, in feet, at 2400 at end of month.
‡ Change in contents, in acre-feet.

07359900 DeGray Lake near Arkadelphia, Ark.--continued

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284,800	299,300	303,900	315,200	347,400	396,800	435,900	450,900	457,600	457,800	472,700	482,400
2	284,900	299,900	303,900	315,700	347,800	397,900	436,500	451,300	457,700	458,100	472,900	482,300
3	284,700	300,200	303,800	316,700	348,400	398,600	437,100	451,400	457,900	458,400	475,300	482,200
4	284,700	300,200	303,600	320,100	348,900	401,500	437,700	451,600	457,900	458,300	475,500	482,100
5	284,700	300,200	303,100	324,100	350,200	403,900	437,900	451,700	457,900	458,500	477,400	481,900
6	284,600	300,200	303,000	326,200	351,700	406,300	438,400	451,900	457,900	458,600	479,600	481,700
7	284,700	300,200	302,500	327,800	353,200	407,600	438,600	452,100	457,900	458,700	481,200	481,400
8	284,700	299,900	302,200	329,200	354,300	408,600	438,900	452,500	457,700	458,700	482,100	481,300
9	285,400	300,200	302,000	330,100	355,100	409,600	439,000	452,500	458,500	458,500	482,800	481,200
10	285,400	301,000	301,700	330,900	355,900	411,300	439,400	453,500	458,600	458,400	483,300	481,000
11	285,400	301,200	301,700	331,600	356,500	412,100	439,700	453,700	458,700	458,200	483,600	480,900
12	286,100	301,700	301,100	332,300	357,100	413,200	439,800	454,100	458,700	458,000	484,300	480,500
13	286,300	301,800	301,100	333,000	363,600	415,100	440,200	454,500	458,600	457,900	484,500	480,500
14	286,800	302,400	300,900	334,000	367,300	417,900	440,500	454,500	458,500	457,800	484,700	480,100
15	286,800	303,300	300,900	335,500	368,800	420,500	440,700	454,500	458,600	457,700	484,900	480,000
16	287,000	304,400	301,100	337,300	371,300	422,500	440,800	454,600	458,600	457,200	485,200	479,600
17	286,800	305,100	301,700	338,400	373,000	423,700	441,000	454,600	458,600	457,300	485,400	479,400
18	287,000	305,500	302,000	339,400	374,700	424,700	441,400	454,700	458,600	457,400	484,700	479,200
19	287,000	306,000	302,400	340,000	376,400	426,500	441,700	454,700	458,500	457,400	484,700	479,200
20	287,000	306,000	302,900	340,600	378,100	427,200	442,500	454,700	458,500	457,000	484,700	478,800
21	287,000	305,800	303,500	341,600	379,000	427,600	443,100	454,700	458,600	457,000	484,500	478,300
22	287,000	305,800	304,400	342,000	381,300	428,600	443,600	454,600	458,500	456,800	484,500	478,000
23	287,000	306,000	306,200	342,600	384,400	429,300	444,500	454,500	458,500	457,300	484,200	478,300
24	287,900	305,500	309,700	343,500	387,900	429,900	446,400	456,500	458,100	460,700	484,300	478,000
25	288,300	305,300	312,400	344,100	389,600	430,600	447,600	456,800	458,100	461,900	484,200	478,000
26	289,800	304,700	313,000	345,000	391,300	431,600	448,400	456,800	457,800	462,400	483,700	478,000
27	293,200	304,700	313,400	345,400	393,000	432,400	449,400	457,100	457,700	462,400	483,400	477,900
28	294,400	304,700	314,100	345,800	394,100	433,400	449,800	457,300	457,800	462,500	483,100	477,800
29	297,200	304,600	314,100	346,200	------	434,300	450,300	457,400	457,900	470,100	482,900	476,100
30	298,100	304,200	314,500	346,800	------	435,000	450,600	457,400	457,800	471,700	482,800	475,000
31	298,900	------	314,900	347,200	------	435,300	------	457,400	------	472,200	482,400	------
MAX	298,900	306,000	314,900	347,200	394,100	435,300	450,600	457,400	458,700	472,200	485,400	482,400
MIN	284,600	299,300	300,900	315,200	347,400	396,800	435,900	450,900	457,600	456,800	472,700	475,000
(†)	372.54	373.23	374.80	378.90	384.51	388.88	390.42	391.09	391.12	392.54	393.53	392.75
(‡)	+14,300	+5,000	+11,500	+32,300	+47,500	+40,700	+15,200	+6,700	+300	+14,400	+10,400	-8,200

CAL YR 1970...................... ‡ +214,200
WTR YR 1971...................... ‡ +189,600

† Elevation, in feet, at 2400 at end of month.
‡ Change in contents, in acre-feet.

07359910 Caddo River at DeGray Regulating Dam, near Arkadelphia, Ark.
(Formerly published as Caddo River at DeGray Dam, near Arkadelphia)

LOCATION (revised).--Lat 34°10'37", long 93°06'37", in NW¼NE¼ sec.35, T.6 S., R.20 W., Clark County, in control house on left bank at DeGray Regulating Dam, 0.1 mile downstream from DeGray Creek, 2.2 miles west of Caddo Valley, 4.2 miles northwest of Arkadelphia, and at mile 4.8.

DRAINAGE AREA.--480 sq mi (revised).

PERIOD OF RECORD.--January 1967 to current year. Prior to Jan. 1, 1971, published as Caddo River at DeGray Dam, near Arkadelphia. Gage-height records collected and occasional discharge measurements made by Corps of Engineers in this vicinity since February 1947. Daily stages 1964 to date and results of discharge measurements 1947 to date published in reports of Corps of Engineers. Prior to November 1963, discharge measurements were at damsite range.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Jan. 1, 1969, water-stage recorder at site 2.6 miles upstream at datum 209.04 ft above mean sea level. Jan. 1, 1969, to Dec. 31, 1970, nonrecording gage at site 3.1 miles upstream at same datum.

EXTREMES.--Current year: Maximum daily discharge, 381 cfs Aug. 26; no flow at times.
Period of record: Maximum discharge, 44,300 cfs May 14, 1968 (gage height, 21.55 ft, site and datum then in use), affected by temporary storage behind Dam, then under construction; no flow at times.
Flood of Apr. 26, 1966, reached a stage of 18.98 ft, site and datum then in use.

REMARKS.--Flow regulated by DeGray Lake since August 1969 (see sta 07359900), and by DeGray Regulating Dam since January 1971 (capacity, 3,600 acre-ft).

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	197	216								0	50
2	23	200	216								0	50
3	23	201	215								0	50
4	23	201	215								0	50
5	22	201	213								0	50
6	22	201	212								0	50
7	22	201	210								0	50
8	24	201	209								0	50
9	29	201	209								0	50
10	30	204	207								0	50
11	30	206	207								0	50
12	36	207	205								0	50
13	41	209	204								0	50
14	44	211	203								0	50
15	44	215	204								0	50
16	45	219	205								0	50
17	45	221	207								205	50
18	45	223	209								175	50
19	45	225	210								0	50
20	45	225	212								50	50
21	45	224	215								50	50
22	45	224	221								50	50
23	46	224	231								58	50
24	55	223	238								133	50
25	77	221	243								290	50
26	90	220	244								381	50
27	100	220	245								31	50
28	176	219	247								50	50
29	222	219	248		------						50	50
30	230	217	248		------						50	50
31	196	------	104		------		------		------		50	------
TOTAL	1,941	6,380	6,672	0	0	0	0	0	0	0	1,583	1,500
MEAN	62.6	213	215	0	0	0	0	0	0	0	51.1	50.0
MAX	230	225	248	0	0	0	0	0	0	0	381	50
MIN	22	197	104	0	0	0	0	0	0	0	0	50
AC-FT	3,850	12,650	13,230	0	0	0	0	0	0	0	3,140	2,980

CAL YR 1970 TOTAL 116,146.00 MEAN 318 MAX 4,140 MIN 0 AC-FT 230,400
WTR YR 1971 TOTAL 18,076.00 MEAN 49.5 MAX 381 MIN 0 AC-FT 35,850

07360000 Ouachita River at Arkadelphia, Ark.

LOCATION.--Lat 34°07'16", long 93°02'46", in sec.17, T.7 S., R.19 W., Clark County, on downstream side of bridge on State Highway 7 at Arkadelphia, 5.4 miles downstream from Caddo River, and at mile 420.6.

DRAINAGE AREA.--2,311 sq mi.

PERIOD OF RECORD.--September 1905 to December 1906, May 1929 to September 1950, and October 1965 to current year in reports of Geological Survey. Monthly discharge only for some periods published in WSP 1311. October 1950 to date in reports of Corps of Engineers. Gage-height records collected at same site since 1913 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 160.30 ft above mean sea level. September 1905 to December 1906, nonrecording gage at site 800 ft downstream at different datum. Apr. 16, 1929, to Sept. 28, 1934, nonrecording gage at same site at datum 5.00 ft higher. Sept. 29, 1934, to Mar. 31, 1946, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--43 years (1905-06, 1929-71), 3,392 cfs (2,458,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 9,320 cfs Jan. 6 (gage height, 11.30 ft); minimum, 220 cfs June 10 (gage height, 3.92 ft).

Period of record: Maximum discharge, 170,000 cfs Mar. 30, 1945 (gage height, 30.3 ft, from floodmark), from rating curve extended above 161,000 cfs; minimum daily, 74 cfs Oct. 5, 1931.

REMARKS.--Flow regulated by Lake Catherine, 37.5 miles upstream, since 1925 (see sta 07359000), by Lake Hamilton since 1932 (see sta 07358500), by Lake Ouachita since 1952 (see sta 07357500), and by DeGray Lake since August 1969 (see sta 07359900). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	452	5,820	2,840	3,860	1,880	2,580	732	500	560	500	651	574
2	470	6,520	4,140	2,780	4,000	3,440	764	488	924	916	609	524
3	536	7,780	4,28C	3,100	4,140	4,000	602	440	924	740	665	700
4	446	4,840	4,140	7,500	4,140	4,420	644	506	2,200	398	2,000	900
5	422	3,720	3,100	8,900	4,420	4,840	672	452	2,000	554	2,980	560
6	512	1,760	1,820	8,340	2,580	4,140	1,120	452	1,580	1,030	3,720	470
7	567	1,020	1,520	7,780	1,580	3,100	672	458	581	560	3,580	630
8	506	1,080	3,720	7,500	1,150	2,320	574	595	588	1,640	1,700	724
9	916	1,820	3,580	6,800	4,420	4,000	602	464	332	693	1,050	956
10	588	1,460	2,980	6,800	4,420	4,000	602	530	422	506	1,460	956
11	482	2,260	3,370	4,280	4,140	3,720	602	616	560	567	820	772
12	724	2,320	3,370	5,960	4,420	3,440	700	554	470	567	2,980	548
13	665	2,520	1,820	5,960	5,820	4,840	732	548	488	494	1,520	796
14	658	3,860	1,250	5,96C	4,140	3,040	908	536	476	732	900	1,120
15	488	3,170	3,040	6,100	2,000	1,760	748	524	476	876	748	1,040
16	542	2,840	4,000	4,280	2,520	1,140	651	524	588	748	820	609
17	524	3,860	3,240	2,980	3,860	1,080	1,120	530	488	542	740	542
18	446	3,720	2,840	2,320	3,510	980	609	609	464	588	1,060	574
19	512	2,980	1,580	4,700	2,580	2,000	581	756	512	554	644	574
20	512	3,100	1,250	4,840	2,910	2,000	2,580	665	464	630	732	494
21	464	2,910	3,100	4,420	1,520	1,700	3,240	602	476	548	748	658
22	488	1,820	4,420	4,000	5,820	1,150	2,260	530	482	506	609	530
23	506	1,520	4,560	3,580	4,840	2,130	1,500	452	506	512	581	470
24	616	4,560	5,540	1,880	4,56C	1,160	1,230	1,010	458	1,360	980	602
25	637	4,840	5,260	2,390	4,280	1,760	567	1,050	672	2,840	964	518
26	567	4,560	3,860	2,840	4,700	4,840	542	567	506	1,020	1,160	494
27	956	1,290	3,860	2,780	4,980	3,170	616	748	542	658	812	542
28	8,620	1,640	4,000	3,860	3,040	1,170	1,370	567	595	940	700	804
29	7,920	796	4,000	4,000	------	1,240	804	574	686	2,200	548	1,390
30	6,660	924	2,910	3,510	------	796	494	440	567	1,160	644	932
31	5,680	------	4,140	2,130	------	716	------	452	------	852	672	------
TOTAL	44,082	91,310	103,530	146,130	102,37C	80,672	28,838	17,739	20,587	26,431	37,797	21,003
MEAN	1,422	3,044	3,340	4,714	3,656	2,602	961	572	686	853	1,219	700
MAX	8,620	7,780	5,54C	8,900	5,820	4,840	3,240	1,050	2,200	2,840	3,720	1,390
MIN	422	796	1,250	1,880	1,150	716	494	440	332	398	548	470
AC-FT	87,440	181,100	205,400	289,800	203,100	160,000	57,200	35,190	40,830	52,430	74,970	41,66C

CAL YR 1970 TOTAL 1,048,125 MEAN 2,872 MAX 21,600 MIN 320 AC-FT 2,079,000
WTR YR 1971 TOTAL 720,489 MEAN 1,974 MAX 8,900 MIN 332 AC-FT 1,429,000

07360500 Lake Greeson near Murfreesboro, Ark.

LOCATION.--Lat 34°08'55", long 93°42'55", in NW¼ sec.18, T.7 S., R.25 W., Pike County, at Narrows Dam on Little Missouri River, 6.5 miles northwest of Murfreesboro, 9.7 miles upstream from Muddy Fork, and at mile 105.5.
DRAINAGE AREA.--237 sq mi.
PERIOD OF RECORD.--November 1949 to current year. Prior to October 1951, published as Narrows Reservoir near Murfreesboro.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Jan. 15, 1950, nonrecording gage at site 700 ft upstream at same datum. Jan. 15 to July 10, 1950, nonrecording gage and July 11 to Oct. 2, 1950, automatic Selsyn Repeater gage, at present site and datum.
EXTREMES.--Current year: Maximum contents, 237,800 acre-ft Aug. 9 (elevation, 541.84 ft); minimum, 182,500 acre-ft Dec. 19 (elevation, 532.22 ft).

Period of record: Maximum contents, 423,800 acre-ft May 18, 19, 1968 (elevation, 564.60 ft); minimum since top of power pool was first reached, 160,000 acre-ft Dec. 24, 1963 (elevation, 527.62 ft).
REMARKS.--Lake is formed by concrete-gravity dam. Outlet works consist of a flood-control section containing two regulated outlets, a power intake section containing three 10-foot-diameter penstocks, and an uncontrolled overflow spillway section. Storage began Nov. 30, 1949, and bottom of power pool was first reached Feb. 1, 1950. Capacity between elevations 548.0 and 563.0 ft is 128,200 acre-ft and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest...............	563.0	407,900
Top of designated power pool........	548.0	279,700
Top of conservation pool and bottom of designated power pool..........	504.0	77,600
Bottom of lowest outlet.............	436.9	--

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

530	171.4	535	197.3	540	226.3
532	181.4	538	214.3	542	238.8

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215,700	191,400	194,500	192,500	201,600	226,900	219,200	229,800	233,100	230,100	233,100	232,600
2	215,500	191,800	194,500	192,800	201,700	227,500	219,100	230,000	232,800	230,900	233,300	232,600
3	214,800	190,300	193,200	193,200	201,400	226,800	218,700	230,100	232,800	231,000	234,300	232,200
4	213,800	189,700	193,000	195,500	201,300	225,800	218,700	230,100	232,900	230,900	235,000	232,100
5	213,800	189,700	192,400	196,200	202,900	226,200	218,900	230,200	232,900	230,900	235,900	232,100
6	212,700	189,600	192,100	195,800	204,600	227,200	219,200	230,400	232,900	230,900	236,800	231,800
7	212,400	189,600	191,800	194,900	205,500	227,100	219,300	230,500	232,800	229,800	237,000	231,700
8	210,900	189,600	191,800	194,000	206,000	227,500	219,400	230,600	232,800	228,900	237,400	229,600
9	211,200	189,700	191,700	194,100	206,400	225,700	219,500	230,600	233,200	228,800	237,800	229,500
10	211,200	191,000	191,700	194,300	206,700	224,300	219,700	231,300	233,500	228,800	236,400	229,500
11	211,200	191,500	190,800	194,600	207,000	224,000	219,800	231,400	233,400	228,700	235,200	228,800
12	212,100	191,900	189,700	194,900	208,400	222,600	219,800	231,500	233,400	228,500	235,200	226,800
13	211,300	192,100	189,700	195,200	210,600	223,700	219,900	231,700	233,400	228,400	236,400	226,400
14	210,600	193,400	188,800	196,500	212,100	225,300	220,000	231,700	233,300	226,400	236,600	226,200
15	209,500	193,900	186,700	198,000	213,300	226,700	220,100	231,700	233,300	224,500	235,500	225,100
16	208,500	194,400	184,100	199,000	214,300	227,400	220,100	231,700	233,200	223,900	235,800	225,000
17	206,600	194,800	183,200	199,800	215,000	228,400	220,200	231,500	233,200	224,100	235,900	225,000
18	206,300	194,900	182,800	200,400	215,000	228,400	220,900	231,600	232,100	224,200	236,000	224,800
19	206,300	195,200	182,500	199,800	215,700	228,900	221,800	231,300	231,000	224,200	236,000	224,800
20	205,100	195,500	183,100	199,800	216,800	227,600	222,400	231,300	230,900	223,900	235,900	224,700
21	203,500	195,700	183,700	199,800	217,700	228,100	223,500	231,200	230,900	223,900	235,100	223,700
22	201,600	195,700	184,600	199,800	219,700	228,300	224,000	231,000	230,900	223,700	235,000	222,900
23	199,400	196,000	188,200	199,900	221,400	225,800	224,500	230,900	230,700	223,700	234,600	222,900
24	198,300	195,400	188,900	200,300	222,300	223,600	227,000	232,200	230,700	225,600	234,300	222,900
25	198,700	194,500	190,000	200,600	223,600	221,700	228,100	232,300	230,600	226,300	234,300	222,800
26	199,000	194,100	190,500	200,900	224,700	219,400	228,800	232,300	229,800	227,000	234,100	222,800
27	196,800	194,100	191,000	201,100	225,600	218,900	228,900	232,500	229,800	227,400	234,100	221,500
28	196,600	194,200	191,500	201,100	226,300	218,700	229,400	232,800	229,800	227,900	232,800	221,100
29	194,400	194,300	191,800	201,200	------	219,100	229,800	232,700	230,100	231,700	232,800	221,000
30	193,000	194,500	191,900	201,500	------	219,000	230,100	232,700	230,100	232,600	232,700	220,900
31	191,400	------	192,400	201,600	------	219,100	------	232,700	------	232,800	232,700	------
MAX	215,700	196,000	194,500	201,600	226,300	228,900	230,100	232,800	233,500	232,800	237,800	232,600
MIN	191,400	189,600	182,500	192,500	201,300	218,700	218,700	229,800	229,800	223,700	232,700	220,900
(†)	533.90	534.48	534.11	535.78	540.07	538.84	540.57	541.04	540.62	541.11	541.03	539.11
(‡)	-24,300	+3,100	-2,000	+9,100	+25,100	-7,500	+10,600	+2,900	-2,600	+3,000	-500	-11,700

CAL YR 1970..................... ‡ -21,400
WTR YR 1971..................... ‡ +5,200

† Elevation, in feet, at 2400 at end of month.
‡ Change in contents, in acre-feet.

07360501 Little Missouri River at Narrows Dam, near Murfreesboro, Ark.

LOCATION.--Lat 34°08'51", long 93°43'04", in NW¼ sec.18, T.7 S., R.25 W., Pike County, in powerhouse at Narrows dam, 6.5 miles northwest of Murfreesboro, 9.5 miles upstream from Muddy Fork Creek, and at mile 105.5.

DRAINAGE AREA.--237 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1946 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to June 18, 1947, water-stage recorder at damsite and June 18, 1947, to Dec. 21, 1951, water-stage recorder at site 2,700 ft downstream, both at datum 400.81 ft above mean sea level.

AVERAGE DISCHARGE.--25 years (1947-71), 381 cfs (276,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 1,730 cfs Oct. 28; minimum daily, 15 cfs at times.
Period of record: Maximum daily discharge since power generation began May 27, 1950, 5,210 cfs June 2, 1957; minimum daily, 10 cfs at times (estimated leakage).

REMARKS.--Discharge computed from flowmeter and estimated leakage. Leakage was not included in published flows prior to Jan. 1, 1954. Flow completely regulated by Lake Greeson since Nov. 30, 1949. (See sta 07360500). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	89	15	15	55	15	265	15	49	15	15	15
2	340	948	799	15	255	1,190	271	15	15	15	15	197
3	518	348	277	15	222	1,120	15	106	15	15	45	15
4	15	26	363	320	15	333	15	15	15	15	15	15
5	502	187	166	837	15	58	15	15	15	15	25	129
6	203	15	36	842	15	528	15	15	15	538	390	27
7	779	15	166	859	61	15	15	15	15	422	88	1,110
8	15	15	57	214	119	1,250	15	15	15	15	15	15
9	15	15	44	183	44	1,140	15	15	15	15	794	15
10	15	15	520	15	15	401	15	15	97	15	777	313
11	15	15	746	15	15	957	15	54	15	15	15	1,030
12	523	15	15	15	41	200	15	15	15	15	15	194
13	503	15	425	15	15	47	15	44	15	873	233	15
14	587	139	1,090	15	15	15	15	88	15	1,130	781	528
15	653	169	1,630	15	15	15	54	15	15	260	15	15
16	899	15	682	15	49	42	15	15	15	451	15	15
17	163	213	400	15	282	255	15	44	523	96	15	15
18	15	15	250	526	15	15	15	168	498	15	15	15
19	655	15	15	105	15	1,010	15	15	15	15	117	15
20	878	15	15	52	15	15	15	32	15	15	416	348
21	944	15	15	169	77	15	201	157	15	15	15	511
22	1,080	15	15	15	111	1,520	15	15	15	15	251	15
23	1,230	315	335	15	15	1,240	47	15	15	23	234	29
24	15	504	44	15	15	1,200	15	15	15	15	15	15
25	15	202	15	15	15	1,480	15	15	388	15	82	15
26	1,530	15	15	15	15	455	15	15	15	15	74	714
27	1,450	15	15	88	15	351	15	15	15	15	383	233
28	1,730	15	15	17	15	15	31	15	15	15	382	55
29	1,090	15	28	15	------	194	15	15	15	15	15	15
30	1,090	15	15	15	------	126	15	15	15	15	15	15
31	77	------	15	15	------	33	------	15	------	15	15	------
TOTAL	17,584	3,425	8,238	4,497	1,571	15,250	1,229	1,038	1,930	4,138	5,297	5,658
MEAN	567	114	266	145	56.1	492	41.0	33.5	64.3	133	171	189
MAX	1,730	948	1,630	859	282	1,520	271	168	523	1,130	794	1,110
MIN	15	15	15	15	15	15	15	15	15	15	15	15
AC-FT	34,880	6,790	16,340	8,920	3,120	30,250	2,440	2,060	3,830	8,210	10,510	11,220

CAL YR 1970 TOTAL 139,608 MEAN 382 MAX 2,460 MIN 15 AC-FT 276,900
WTR YR 1971 TOTAL 69,855 MEAN 191 MAX 1,730 MIN 15 AC-FT 138,600

07361000 Little Missouri River near Murfreesboro, Ark.

LOCATION.--Lat 34°02'55", long 93°43'12", in NE¼NE¼ sec.24, T.8 S., R.26 W., Pike County, near right bank on downstream side of bridge on State Highway 27, 1.8 miles downstream from Muddy Fork Creek, 2.0 miles southwest of Murfreesboro, 4.6 miles upstream from Prairie Creek, 11.4 miles downstream from Lake Greeson, and at mile 94.1.

DRAINAGE AREA.--380 sq mi.

PERIOD OF RECORD.--October and November 1927 and January 1928 (fragmentary), February 1928 to September 1931, July 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 324.28 ft above mean sea level. Prior to Sept. 30, 1931, nonrecording gage at site 100 ft upstream at same datum. July 10, 1937, to Nov. 10, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--37 years (1928-31, 1937-71), 597 cfs (432,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,880 cfs Dec. 15 (gage height, 5.99 ft); minimum, 8.0 cfs Oct. 1 (gage height, 1.07 ft).

Period of record: Maximum discharge, 120,000 cfs Mar. 30, 1945 (gage height, 19.84 ft), from rating curve extended above 38,000 cfs on basis of contracted-opening measurement of peak flow; minimum, 2.9 cfs Sept. 1, 1943.

Flood in April 1927 reached a stage of about 21 ft from information by State Highway Department.

REMARKS.--Records good. Some regulation by Lake Greeson 11.4 miles upstream since November 1949 (see sta 07360500).

REVISIONS (WATER YEARS).--WSP 1007: 1938, 1941.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	98	20	41	31	89	77	665	675	13	87	17
2	219	676	557	37	173	783	470	655	47	18	66	156
3	527	515	278	46	293	1,370	65	645	34	16	150	40
4	151	147	140	380	68	942	41	640	28	12	167	17
5	311	166	449	745	107	244	37	640	26	11	109	20
6	314	54	44	942	85	497	35	635	25	372	430	114
7	500	24	160	909	70	297	32	620	23	484	194	565
8	442	22	36	412	164	931	30	605	19	102	109	520
9	30	22	56	162	87	1,190	30	601	20	22	720	26
10	13	22	349	167	55	695	29	1,000	35	15	772	156
11	14	31	672	61	46	705	29	887	81	14	167	625
12	370	28	214	52	234	592	27	843	21	13	46	556
13	528	34	341	50	258	502	26	838	16	188	139	162
14	621	73	920	89	162	320	26	783	16	1,140	761	164
15	659	181	1,330	98	132	197	24	735	15	569	173	372
16	847	178	862	77	129	150	52	700	14	556	34	22
17	540	225	584	66	234	293	24	670	170	237	23	15
18	42	55	356	320	197	194	40	645	685	68	20	12
19	396	36	85	360	116	937	66	625	105	34	49	13
20	876	32	42	95	162	156	71	601	24	24	348	46
21	1,060	28	54	336	145	87	197	578	21	18	121	695
22	1,130	27	87	185	439	1,070	170	560	15	15	153	47
23	1,270	143	350	50	244	1,320	91	551	14	15	258	18
24	459	383	134	52	162	1,160	107	860	13	360	100	24
25	30	410	93	49	134	1,270	68	1,130	126	290	30	12
26	971	48	59	44	150	871	755	909	224	121	71	286
27	1,640	26	50	49	129	241	740	827	21	134	68	385
28	1,520	22	44	83	100	272	720	794	15	625	740	234
29	1,260	22	40	37	------	65	695	772	19	740	47	37
30	1,060	20	49	34	------	304	685	740	15	244	27	14
31	454	------	41	34	------	65	------	700	------	134	22	------
TOTAL	18,267	3,748	8,496	6,062	4,306	17,809	5,459	12,454	2,562	6,604	6,201	5,370
MEAN	589	125	274	196	154	574	182	724	85.4	213	200	179
MAX	1,640	676	1,330	942	439	1,370	755	1,130	685	1,140	772	695
MIN	13	20	20	34	31	65	24	551	13	11	20	12
AC-FT	36,230	7,430	16,850	12,020	8,540	35,320	10,830	44,540	5,080	13,100	12,300	10,650

CAL YR 1970 TOTAL 197,312.6 MEAN 541 MAX 5,520 MIN 8.0 AC-FT 391,400
WTR YR 1971 TOTAL 107,338.0 MEAN 294 MAX 1,640 MIN 11 AC-FT 212,900

07361500 Antoine River at Antoine, Ark.

LOCATION.--Lat 34°02'20", long 93°25'05", in NW¼NW¼ sec.24, T.8 S., R.23 W., Pike County, near right bank on downstream side of bridge on State Highway 26 at Antoine, 1.6 miles downstream from Brushy Creek, 1.9 miles downstream from Suck Creek, and at mile 8.5.

DRAINAGE AREA.--181 sq mi.

PERIOD OF RECORD.--October 1954 to current year. Gage-height records collected in this vicinity since November 1950 (published as "Antoine Creek") are contained in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 229.33 ft above mean sea level. Prior to Oct. 22, 1954, at site 75 ft upstream at same datum.

AVERAGE DISCHARGE.--17 years, 235 cfs (17.63 inches per year, 170,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,960 cfs July 28 (gage height, 16.66 ft); minimum, 0.66 cfs Oct. 1, 2, 3 (gage height, 2.63 ft).

Period of record: Maximum discharge, 35,500 cfs May 2, 1958 (gage height, 28.75 ft); no flow at times in 1956, 1964, 1969.

Flood in 1905 reached a stage of 29.7 ft, from information by State Highway Department (discharge, 40,000 cfs).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1511: 1955(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	31	19	68	36	138	69	15	17	4.5	235	13
2	.66	33	18	55	31	157	67	13	14	12	173	12
3	.77	35	17	102	30	543	63	12	13	54	258	11
4	.81	43	16	534	40	439	57	12	11	30	2,150	10
5	.75	34	14	342	235	370	53	12	9.4	23	1,070	9.6
6	.73	28	13	251	180	321	48	11	8.0	17	787	8.7
7	.75	24	13	195	139	257	45	9.9	6.3	13	581	7.7
8	1.1	21	11	145	113	214	43	8.6	5.0	9.1	381	6.9
9	3.8	22	11	116	89	188	42	8.6	4.2	6.5	275	5.9
10	3.0	20	10	95	76	205	41	85	3.6	4.5	215	4.9
11	2.3	19	10	81	70	200	39	49	3.0	3.3	155	4.4
12	8.8	18	10	69	346	216	36	40	2.6	2.6	205	3.9
13	6.6	19	11	66	471	629	34	39	2.2	2.1	553	3.5
14	6.9	104	12	170	339	525	32	29	1.8	1.7	290	3.2
15	21	214	21	146	276	388	30	23	1.6	1.5	207	3.0
16	19	131	175	95	231	300	28	18	1.6	1.6	145	2.6
17	20	95	162	86	192	252	27	15	2.1	2.1	103	2.3
18	16	80	102	82	147	226	29	12	1.8	1.9	80	2.3
19	13	70	83	71	212	221	32	10	1.7	9.1	65	2.1
20	14	59	76	60	227	173	36	8.3	1.8	21	53	1.9
21	19	50	175	54	257	141	36	6.2	1.5	13	45	2.9
22	19	44	282	54	558	131	31	4.8	1.3	11	38	5.2
23	26	36	289	53	379	133	31	4.1	1.2	13	33	8.4
24	149	30	207	66	302	108	29	74	1.2	2,170	48	11
25	147	27	144	69	258	104	30	133	1.2	813	41	13
26	61	24	103	58	265	153	27	59	1.1	337	33	12
27	41	23	82	50	222	117	23	40	1.4	223	30	4.4
28	37	22	72	44	167	99	21	34	3.0	1,620	39	8.2
29	53	21	63	42	------	92	18	30	3.8	1,880	25	10
30	52	20	60	41	------	82	17	25	2.7	562	19	10
31	39	------	70	40	------	73	------	20	------	337	15	------
TOTAL	783.65	1,397	2,351	3,400	5,888	7,195	1,114	860.5	130.1	8,199.5	8,347	204.0
MEAN	25.3	46.6	75.8	110	210	232	37.1	27.8	4.34	265	269	6.80
MAX	149	214	289	534	558	629	69	133	17	2,170	2,150	13
MIN	.66	18	10	40	30	73	17	4.1	1.1	1.5	15	1.9
CFSM	.14	.26	.42	.61	1.16	1.28	.21	.15	.02	1.46	1.49	.04
IN.	.16	.29	.48	.70	1.21	1.48	.23	.18	.03	1.69	1.72	.04
AC-FT	1,550	2,770	4,660	6,740	11,680	14,270	2,210	1,710	258	16,260	16,560	405

CAL YR 1970 TOTAL 79,870.28 MEAN 219 MAX 6,090 MIN .66 CFSM 1.21 IN 16.42 AC-FT 158,400
WTR YR 1971 TOTAL 39,869.75 MEAN 109 MAX 2,170 MIN .66 CFSM .60 IN 8.19 AC-FT 79,080

PEAK DISCHARGE (BASE, 6,000 CFS).--NO PEAK ABOVE BASE.

07361600 Little Missouri River near Boughton, Ark.

LOCATION.--Lat 33°52'32", long 93°18'16", in NE¼ sec.13, T.10 S., R.22 W., Nevada County, on downstream side of bridge on U.S. Highway 67, 1.5 miles northeast of Boughton, 5.9 miles downstream from Howard Creek, 10.2 miles downstream from Antoine River, and at mile 46.8.

DRAINAGE AREA.--1,068 sq mi.

PERIOD OF RECORD.--October 1965 to current year in reports of the Geological Survey. October 1937 to September 1942 and October 1945 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 182.13 ft above mean sea level. Prior to Mar. 19, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years (1937-42, 1945-71), 1,434 cfs (1,039,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,080 cfs July 25 (gage height, 11.58 ft); minimum, 36 cfs July 13 (gage height, 2.54 ft).

Period of record: Maximum discharge, 66,000 cfs May 3, 1958; maximum gage height, 23.29 ft May 15, 1968; minimum discharge, 10 cfs Sept. 20-30, 193

Maximum stage since at least 1905, 27.2 ft Mar. 31, 1945 (discharge, 111,000 cfs, from rating curve extended above 62,000 cfs), from records of Corps of Engineers.

REMARKS.--Some regulation by Lake Greeson, 58.7 miles upstream, since November 1949 (see sta 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WRD Ark. 1968: 1966-67.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	665	93	378	235	615	339	135	128	70	615	81
2	70	229	91	324	208	590	289	217	116	339	398	74
3	55	486	265	346	211	1,740	565	130	106	102	1,120	69
4	300	565	374	1,060	430	2,990	310	112	99	112	1,990	132
5	265	300	344	1,490	540	2,090	235	135	87	84	2,390	78
6	112	172	356	1,340	690	1,220	211	130	84	70	1,640	70
7	265	202	172	1,390	495	1,240	193	100	74	328	2,090	97
8	318	118	120	1,260	410	990	181	99	102	363	1,240	238
9	442	118	138	790	402	1,390	178	94	84	394	640	474
10	116	99	84	466	370	1,740	166	422	70	80	840	104
11	85	97	140	454	328	1,390	160	2,090	68	63	965	73
12	88	88	565	318	359	1,390	151	1,260	93	49	458	349
13	138	102	342	279	1,990	3,500	148	495	91	36	665	495
14	426	283	229	359	1,390	4,830	148	307	69	45	565	199
15	486	740	244	665	965	3,660	148	238	60	790	890	91
16	535	470	565	505	765	1,890	145	226	58	520	515	321
17	665	398	1,390	382	640	1,160	142	163	55	339	223	87
18	520	314	765	338	665	990	148	137	51	293	145	58
19	184	265	515	454	815	865	148	132	367	145	122	45
20	172	181	378	540	1,090	1,340	199	190	272	87	112	39
21	665	142	335	332	915	765	220	118	95	72	178	38
22	865	128	640	438	1,490	490	223	97	70	70	269	307
23	940	106	790	414	1,640	1,190	321	145	61	69	116	172
24	1,090	92	915	321	1,160	1,690	229	108	57	1,440	220	76
25	790	300	665	406	890	1,490	223	398	50	4,650	238	57
26	223	418	418	374	790	1,690	199	321	49	2,750	116	55
27	540	211	345	328	840	1,390	169	211	178	1,790	104	59
28	1,540	125	300	293	740	615	165	169	91	1,190	106	356
29	1,490	104	279	307	------	615	132	232	76	3,500	565	181
30	1,380	95	269	262	------	363	125	178	72	2,340	163	96
31	1,120	------	349	256	------	462	------	145	------	1,240	97	------
TOTAL	16,005	7,613	12,475	16,869	21,463	46,380	6,190	8,934	2,933	23,420	19,795	4,571
MEAN	516	254	402	544	767	1,496	206	288	97.8	755	639	152
MAX	1,540	740	1,390	1,490	1,990	4,830	565	2,090	367	4,650	2,390	495
MIN	55	88	84	256	208	363	125	94	49	36	97	38
AC-FT	31,750	15,100	24,740	33,460	42,570	91,990	12,280	17,720	5,820	46,450	39,260	9,070

CAL YR 1970 TOTAL 450,698 MEAN 1,235 MAX 14,600 MIN 41 AC-FT 894,000
WTR YR 1971 TOTAL 186,648 MEAN 511 MAX 4,830 MIN 36 AC-FT 370,200

07362000 Ouachita River at Camden, Ark.

LOCATION.--Lat 33°35'47", long 92°49'05", in SE¼ sec.14, T.13 S., R.17 W., Ouachita County, at bridge on U.S. Highway 79 at Camden, 3.4 miles downstream from Ecore Fabre Bayou, 6.2 miles upstream from Two Bayou Creek, and at mile 354.1.

DRAINAGE AREA.--5,391 sq mi.

PERIOD OF RECORD.--September 1928 to September 1960 and October 1965 to current year in reports of Geological Survey. October 1960 to date in reports of Corps of Engineers. Monthly discharge only October 1929 to September 1960 published in WSP 1311 and WSP 1731. Gage-heights collected in this vicinity since 1885 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 71.69 ft above mean sea level. Aug. 8, 1928, to July 10, 1935, and July 11, 1935, to Jan. 4, 1945, nonrecording gage at same site and datum. Jan. 5, 1945, to Oct. 27, 1947, nonrecording gage at site 0.4 mile downstream at same datum. Aug. 10, 1928, to May 31, 1949, supplementary nonrecording gage, 4.5 miles upstream. Since Jan. 1, 1957, auxiliary water-stage recorder 3.2 miles downstream.

AVERAGE DISCHARGE.--43 years, 7,187 cfs (5,207,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 13,200 cfs Aug. 9 (gage height, 18.69 ft); minimum, 712 cfs June 16, 17; minimum gage height, 3.20 ft Sept. 16.

Period of record: Maximum discharge, 243,000 cfs Apr. 3, 1945 (gage height, 44.82 ft); minimum, 125 cfs Sept. 16, 24-26, 1943.

REMARKS.--Flow regulated by Lake Catherine 102 miles upstream since 1925 (see sta 07359000), by Lake Hamilton since 1932 (see sta 07358500), by Lake Greeson since 1949 (see sta 07360500), by Lake Ouachita since 1952 (see sta 07357500), and by DeGray Lake since August 1969 (see sta 07359900). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	709	7,100	840	4,340	3,050	4,810	1,920	1,020	800	827	5,040	960
2	655	6,390	2,000	5,030	2,520	4,240	1,840	863	787	814	3,140	863
3	655	5,960	4,490	4,520	5,080	3,920	1,740	887	789	814	2,170	842
4	643	7,100	5,120	4,060	5,250	6,360	1,470	880	1,120	863	3,800	837
5	646	6,200	5,300	7,160	5,290	10,000	1,780	809	1,900	833	7,120	950
6	724	3,910	4,580	11,000	5,570	9,170	1,430	787	1,720	775	9,990	1,020
7	739	2,390	2,940	11,200	4,690	6,910	1,710	803	1,820	787	12,300	858
8	804	1,390	2,240	10,200	2,820	5,120	1,340	765	1,010	841	12,900	822
9	980	1,430	3,430	9,630	2,800	4,400	1,170	773	833	814	13,200	818
10	1,220	2,070	3,830	5,160	5,390	5,530	1,150	903	795	1,320	9,200	1,360
11	1,430	2,460	3,720	8,150	5,970	6,340	1,100	1,450	779	892	5,140	1,180
12	1,190	2,760	3,440	5,680	5,340	6,330	1,110	4,630	756	837	3,770	997
13	1,090	2,870	4,060	6,760	4,490	6,160	1,090	5,930	751	815	5,800	920
14	1,160	3,000	3,300	6,850	8,120	10,300	1,160	7,510	729	804	4,140	1,200
15	1,260	4,020	1,940	6,980	7,510	11,900	1,240	6,290	713	786	3,780	1,110
16	1,380	4,420	2,860	7,400	4,550	11,000	1,180	4,280	712	810	3,030	1,080
17	1,410	4,340	5,380	6,690	4,730	8,740	1,210	3,030	712	1,740	2,650	1,010
18	1,490	4,390	6,380	4,670	5,860	6,050	1,700	2,370	739	1,050	1,800	1,000
19	1,670	4,340	5,460	3,340	5,110	3,600	992	1,820	746	897	1,530	798
20	1,210	3,920	4,000	5,640	3,730	4,540	1,190	1,330	755	878	1,530	779
21	935	3,410	3,040	6,080	5,360	3,680	2,520	1,180	889	856	1,160	777
22	915	3,410	4,190	5,490	3,990	4,620	4,280	1,060	815	834	1,160	766
23	1,330	2,700	6,000	5,070	7,680	2,510	2,930	1,010	800	824	1,220	787
24	1,730	2,100	7,100	5,080	8,670	3,640	1,700	781	790	1,880	1,020	1,290
25	2,150	4,520	7,800	3,330	7,670	3,690	2,280	889	782	4,640	875	829
26	2,520	6,020	8,300	3,420	6,600	3,740	1,420	1,590	770	10,400	1,200	825
27	2,110	6,240	5,860	4,280	5,200	6,020	1,250	1,310	787	10,900	1,240	803
28	1,830	3,630	4,720	3,950	7,340	6,500	1,090	1,020	775	9,960	1,260	787
29	7,950	2,140	4,400	5,110	-------	3,560	1,120	989	800	7,900	970	777
30	10,600	1,080	4,230	5,130	-------	2,950	1,580	824	811	7,380	903	1,080
31	9,600	-------	3,600	4,770	-------	2,130	-------	1,010	-------	7,090	1,270	-------
TOTAL	62,735	115,710	134,550	190,170	150,380	178,460	47,692	58,793	26,985	80,861	124,308	28,125
MEAN	2,024	3,857	4,340	6,135	5,371	5,757	1,590	1,897	900	2,608	4,010	938
MAX	10,600	7,100	8,300	11,200	8,670	11,900	4,280	7,510	1,900	10,900	13,200	1,360
MIN	643	1,080	840	3,330	2,520	2,130	992	765	712	775	875	766
AC-FT	124,400	229,500	266,900	377,200	298,300	354,000	94,600	116,600	53,520	160,400	246,600	55,790

CAL YR 1970 TOTAL 2,422,369 MEAN 6,637 MAX 39,400 MIN 643 AC-FT 4,805,000
WTR YR 1971 TOTAL 1,198,769 MEAN 3,284 MAX 13,200 MIN 643 AC-FT 2,378,000

07362100 Smackover Creek near Smackover, Ark.

LOCATION.--Lat 33°22'33", long 92°46'37", in NW¼SE¼ sec.32, T.15 S., R.16 W., Union County, near right bank on downstream side of bridge on State Highway 7, 0.1 mile downstream from Camp Creek, 3.3 miles northwest of Smackover, and at mile 23.0.

DRAINAGE AREA.--377 sq mi.

PERIOD OF RECORD.--October 1961 to current year. Gage-height records collected and occasional discharge measurements made by Corps of Engineers at this site since September 1938. Daily stages 1940 to date and results of discharge measurements 1947 to 1960 are published in reports of Corps of Engineers.

AVERAGE DISCHARGE.--10 years, 304 cfs (10.95 inches per year, 220,200 acre-ft per year).

GAGE.--Water-stage recorder. Datum of gage is 97.56 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum discharge, 4,080 cfs July 25 (gage height, 15.10 ft); minimum, 2.6 cfs Oct. 6 (gage height, 2.10 ft).

Period of record: Maximum discharge, 21,400 cfs May 2, 1966 (gage height, 20.93 ft); no flow for part of Aug. 9, 1964.

Maximum stage since at least 1938, 21.21 ft Apr. 27, 1958 (discharge, 25,000 cfs), from records of Corps of Engineers.

REMARKS.--Records good.

COOPERATION.--Gage-height record furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WRD Ark. 1967: 1965.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	27	23	93	71	148	148	188	18	20	604	16
2	4.5	20	23	93	65	124	117	124	22	25	664	16
3	4.0	16	23	84	58	110	103	90	28	93	664	15
4	3.6	14	24	103	57	110	90	66	25	103	808	14
5	3.0	14	23	132	66	114	81	53	20	65	952	15
6	2.8	13	23	148	81	110	73	47	17	39	1,060	14
7	2.8	12	22	110	96	100	67	75	16	27	1,090	13
8	4.4	12	21	87	90	93	62	128	15	25	1,120	11
9	13	52	21	73	76	84	60	96	34	18	976	10
10	13	100	21	66	67	90	57	184	62	13	590	8.1
11	22	117	22	64	60	100	56	534	33	9.3	416	7.6
12	32	77	22	62	76	124	54	808	23	6.6	223	6.6
13	32	52	22	60	117	374	51	1,160	17	5.2	272	5.9
14	29	134	22	59	173	604	49	1,290	13	4.3	332	5.2
15	27	198	24	57	183	618	46	1,120	11	3.5	266	4.7
16	21	178	39	55	284	380	45	848	14	3.6	144	4.9
17	16	100	48	52	356	223	43	664	14	263	87	4.5
18	13	64	54	49	344	158	43	260	14	332	63	4.3
19	13	47	49	48	457	144	48	114	10	87	50	4.1
20	17	38	64	46	600	144	73	84	7.3	42	41	4.1
21	20	33	114	46	712	128	282	66	5.6	26	36	4.0
22	20	31	153	45	680	114	320	53	5.4	19	32	6.9
23	18	28	163	47	604	103	198	46	5.4	47	35	13
24	22	24	120	84	506	100	120	40	7.5	874	35	18
25	25	23	90	168	368	100	90	35	12	3,350	30	29
26	25	22	70	260	228	132	69	31	9.9	3,230	28	67
27	31	22	57	254	188	148	55	28	8.4	2,310	24	44
28	50	22	50	163	178	136	47	25	9.0	1,670	23	27
29	55	23	52	103	------	148	45	23	8.1	1,030	23	20
30	52	23	67	87	------	284	125	20	23	440	22	16
31	37	------	87	77	------	243	------	19	------	464	19	------
TOTAL	633.7	1,536	1,613	2,875	6,921	5,588	2,717	8,319	507.6	14,644.5	10,729	428.9
MEAN	20.4	51.2	52.0	92.7	247	180	90.6	268	16.9	472	346	14.3
MAX	55	198	163	260	712	618	320	1,290	62	3,350	1,120	67
MIN	2.8	12	21	45	57	84	43	19	5.4	3.5	19	4.0
CFSM	.05	.14	.14	.25	.66	.48	.24	.71	.04	1.25	.92	.04
IN.	.06	.15	.16	.28	.68	.55	.27	.82	.05	1.45	1.06	.04
AC-FT	1,260	3,050	3,200	5,700	13,730	11,080	5,390	16,500	1,010	29,050	21,280	851

CAL YR 1970 TOTAL 132,424.7 MEAN 363 MAX 5,280 MIN 2.2 CFSM .96 IN 13.07 AC-FT 262,700
WTR YR 1971 TOTAL 56,512.7 MEAN 155 MAX 3,350 MIN 2.8 CFSM .41 IN 5.58 AC-FT 112,100

PEAK DISCHARGE (BASE, 2,400 CFS).--JULY 25 (2000) 4,080 CFS (15.10 FT).

07362500 Moro Creek near Fordyce, Ark.

LOCATION.--Lat 33°47'32", long 92°19'30", in NW¼NW¼ sec.3, T.11 S., R.12 W., Calhoun-Cleveland County line, near center of stream on downstream side of bridge on State Highway 8, 1,100 ft upstream from Caney Creek, 4 miles southeast of Fordyce, 12 miles upstream from White Water Creek, and at mile 38.2.

DRAINAGE AREA.--216 sq mi.

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.63 ft above mean sea level.

AVERAGE DISCHARGE.--20 years, 200 cfs (12.57 inches per year, 144,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,230 cfs Aug. 10 (gage height, 10.62 ft); no flow Oct. 5-9.
Period of record: Maximum discharge, 26,800 cfs May 2, 1958 (gage height, 16.47 ft); no flow at times each year.
Flood in January 1938 reached a stage of 15.1 ft, from information by State Highway Department (discharge, 15,800 cfs).

REMARKS.--Records good except those below 20 cfs, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	2.0	.62	4.4	7.0	31	49	13	6.6	4.9	50	4.6
2	.34	2.1	.78	3.7	5.5	26	44	10	6.4	6.7	43	3.6
3	.15	2.0	.93	3.7	5.1	23	36	8.9	7.0	4.3	314	3.1
4	.01	2.0	.97	8.1	5.3	20	29	7.6	7.5	2.8	511	2.8
5	0	1.9	1.0	9.1	7.3	19	25	6.4	14	2.1	487	2.5
6	0	1.8	1.0	7.4	7.9	18	21	5.5	35	2.4	404	2.3
7	0	1.8	.96	6.2	7.9	17	19	5.1	23	14	451	2.0
8	0	1.7	.95	4.8	7.5	24	17	4.6	14	11	510	1.8
9	0	2.4	.84	3.9	7.1	30	16	4.3	12	6.1	972	1.6
10	1.5	3.2	.75	3.4	5.7	29	14	10	9.1	3.5	1,190	1.5
11	1.5	2.4	.74	3.0	4.9	28	13	54	27	2.3	970	1.5
12	1.6	1.7	.70	2.8	6.0	40	12	131	32	1.6	751	1.4
13	3.0	1.6	.68	2.5	9.9	157	11	338	18	1.3	475	1.3
14	4.5	5.7	.70	2.2	11	342	11	436	11	1.1	193	1.3
15	2.9	8.7	.91	2.3	11	366	9.4	494	6.6	.89	103	1.3
16	1.9	5.4	3.8	2.4	11	378	8.8	588	4.7	.78	75	1.2
17	1.6	3.2	4.4	2.3	12	366	8.3	659	3.7	.63	52	1.2
18	1.4	2.0	3.8	2.3	10	354	8.0	588	6.3	.60	37	1.3
19	1.5	1.4	3.3	2.3	16	318	11	341	7.7	.65	26	1.6
20	1.6	1.1	4.3	2.2	41	224	8.9	121	5.0	.63	20	1.6
21	1.6	.87	11	2.2	41	132	8.7	59	3.0	.54	16	1.4
22	1.7	.72	11	2.3	64	92	8.1	41	2.0	.44	13	1.4
23	1.6	.60	8.5	2.5	91	71	8.4	30	1.5	.49	10	2.0
24	1.8	.50	6.5	49	56	60	8.3	22	1.2	144	8.1	4.4
25	1.6	.44	5.0	130	36	52	8.5	18	1.1	575	6.9	2.7
26	1.6	.45	3.8	90	36	48	10	14	.89	550	5.7	1.8
27	1.8	.45	3.0	60	45	44	10	12	.73	418	5.1	1.2
28	2.0	.45	2.5	40	40	43	9.5	10	.85	280	5.1	.82
29	2.0	.61	2.4	25	------	44	10	8.5	1.3	227	6.9	.65
30	2.1	.63	2.9	15	------	52	16	7.5	3.4	153	6.4	.48
31	2.1	------	3.9	9.0	------	54	------	6.9	------	88	5.5	------
TOTAL	43.91	59.82	92.63	504.0	608.1	3,502	468.9	4,054.3	272.57	2,504.75	7,722.7	56.35
MEAN	1.42	1.99	2.99	16.3	21.7	113	15.6	131	9.09	80.8	249	1.88
MAX	4.5	8.7	11	130	91	378	49	659	35	575	1,190	4.6
MIN	0	.44	.62	2.2	4.9	17	8.0	4.3	.73	.44	5.1	.48
CFSM	.007	.009	.01	.08	.10	.52	.07	.61	.04	.37	1.15	.009
IN.	.007	.01	.02	.09	.10	.60	.08	.70	.05	.43	1.33	.009
AC-FT	87	119	184	1,000	1,210	6,950	930	8,040	541	4,970	15,320	112

CAL YR 1970 TOTAL 94,507.24 MEAN 259 MAX 5,010 MIN 0 CFSM 1.20 IN 16.28 AC-FT 187,500
WTR YR 1971 TOTAL 19,890.03 MEAN 54.5 MAX 1,190 MIN 0 CFSM .25 IN 3.43 AC-FT 39,450

PEAK DISCHARGE (BASE, 2,800 CFS).--NO PEAK ABOVE BASE.

07363000 Saline River at Benton, Ark.

LOCATION.--Lat 34°34'05", long 92°36'40", in SE¼NE¼ sec.9, T.2 S., R.15 W., Saline County, on left bank 0.8 mile west of Benton, 3 miles downstream from confluence of North Fork and Alum Fork, and at mile 198.1.

DRAINAGE AREA.--569 sq mi.

PERIOD OF RECORD.--October 1950 to current year. Gage-height records collected at site 0.4 mile downstream since July 1938 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 260.91 ft above mean sea level. July 6, 1938, to July 29, 1948, and Feb. 14 to Mar. 24, 1950, nonrecording gage; July 30, 1948, to Feb. 13, 1950, and Mar. 25, 1950, to June 13, 1951, water-stage recorder; all at site 0.4 mile downstream at datum 3.00 ft lower.

AVERAGE DISCHARGE.--21 years, 722 cfs (523,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 42,100 cfs Oct. 27 (gage height, 23.74 ft); minimum, 3.6 cfs July 23 (gage height, 2.95 ft).

Period of record: Maximum discharge, 100,000 cfs Jan. 30, 1969 (gage height, 29.68 ft); no flow July 23-25, 27-30, Aug. 11-13, 1954.

Flood of April 1927 reached a stage of about 32.0 ft, former site and datum (from information by State Highway Department), or about 30.5 ft, present site and datum (discharge, about 110,000 cfs).

REMARKS.--Records good. Little Rock diverts about 37 cfs from Lake Winona on Alum Fork for municipal use and discharges sewage effluent into Arkansas River. Benton diverts about 2.7 cfs for municipal use just above station. At times low flow is augmented by releases from Lake Norrell.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	568	166	647	291	492	458	237	103	66	65	68
2	35	484	159	537	261	475	419	224	98	152	52	57
3	32	539	152	1,040	243	886	359	195	145	104	876	51
4	28	444	146	6,950	260	1,430	331	171	112	76	1,620	46
5	23	365	137	3,840	841	1,300	306	159	97	71	2,090	44
6	26	308	135	1,790	928	1,130	289	154	91	77	1,250	41
7	29	271	128	1,220	672	946	265	159	82	82	859	37
8	32	243	125	929	552	762	254	215	70	75	488	33
9	34	925	123	763	478	636	247	234	67	62	312	33
10	44	1,680	122	639	412	726	231	226	62	51	311	29
11	60	891	117	555	376	1,020	221	283	66	43	344	22
12	68	596	132	492	3,020	869	209	368	63	37	581	35
13	84	473	153	437	6,850	1,830	197	790	61	31	327	39
14	106	1,470	151	446	2,370	2,530	189	551	64	33	235	37
15	205	2,120	227	612	1,500	1,470	178	395	70	28	163	36
16	166	1,230	1,910	558	1,110	1,050	181	306	66	23	120	37
17	125	853	1,600	482	874	801	166	251	58	20	106	37
18	102	644	953	427	712	658	166	207	112	18	90	36
19	87	517	667	385	767	607	167	178	152	15	76	36
20	77	425	533	343	1,480	551	164	150	79	12	67	38
21	71	373	882	313	1,170	475	173	135	60	9.9	60	36
22	67	330	3,290	293	2,230	408	157	120	50	9.2	57	36
23	65	291	4,860	288	1,830	378	1,010	113	46	11	335	45
24	74	256	2,110	483	1,270	344	1,260	489	62	71	304	47
25	150	230	1,350	751	973	475	653	790	57	78	185	45
26	269	211	987	616	818	1,110	466	339	47	65	136	46
27	18,200	207	750	496	700	849	374	237	42	59	104	41
28	18,200	192	598	421	577	667	314	198	39	61	85	42
29	3,170	181	505	378	------	621	272	162	42	73	71	41
30	1,350	174	452	352	------	566	244	135	37	68	62	35
31	840	------	568	326	------	501	------	115	------	77	60	------
TOTAL	43,857	17,491	24,188	27,809	33,565	26,563	9,920	8,286	2,200	1,658.1	11,499	1,206
MEAN	1,415	583	780	897	1,199	857	331	267	73.3	53.5	371	40.2
MAX	18,200	2,120	4,860	6,950	6,850	2,530	1,260	790	152	152	2,090	68
MIN	23	174	117	288	243	344	157	113	37	9.2	52	22
AC-FT	86,990	34,690	47,980	55,160	66,580	52,690	19,680	16,440	4,360	3,290	22,810	2,390

CAL YR 1970 TOTAL 279,350.0 MEAN 765 MAX 18,200 MIN 18 AC-FT 554,100
WTR YR 1971 TOTAL 208,242.1 MEAN 571 MAX 18,200 MIN 9.2 AC-FT 413,000

PEAK DISCHARGE (BASE, 14,000 CFS).--OCT. 27 (2330) 42,000 CFS (23.74 FT).

07363200 Saline River near Sheridan, Ark.

LOCATION.--Lat 34°06'56", long 92°24'21", in NE¼NW¼ sec.15, T.7 S., R.13 W., Grant County, on downstream side of bridge on U.S. Highway 167, 1 mile upstream from Gamble Creek, 1.6 miles upstream from Hurricane Creek, 13.5 miles south of Sheridan, and at mile 131.4.

DRAINAGE AREA.--1,129 sq mi.

PERIOD OF RECORD.--October 1970 to September 1971. Gage-height records since September 1938 are contained in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 152.86 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 10,000 cfs Nov. 1 (gage height, 15.51 ft); minimum, 43 cfs July 23 (gage height, 1.85 ft).

Maximum stage since at least 1938, 22.42 ft Feb. 1, 1969, from record of Corps of Engineers (discharge, 71,000 cfs).

REMARKS.--Records good.

COOPERATION.--Gage-height record for the period Oct. 1 to Dec. 29 furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	8,030	288	868	581	1,240	973	380	304	100	231	123
2	54	8,700	276	854	535	1,010	843	334	259	107	177	114
3	48	6,660	264	926	489	940	753	305	238	113	186	108
4	50	4,040	252	1,040	459	1,030	692	286	242	237	791	104
5	50	2,050	240	1,470	461	1,380	636	264	274	279	1,800	99
6	50	1,000	229	2,110	516	1,800	572	240	269	205	2,650	92
7	70	638	218	2,570	819	1,970	514	222	222	161	3,330	86
8	125	494	207	3,500	1,140	1,920	471	210	192	137	3,850	80
9	111	494	196	5,480	1,060	1,650	439	206	193	132	4,320	75
10	107	446	185	5,430	879	1,330	412	241	215	133	4,560	70
11	98	648	174	3,740	753	1,140	390	608	180	127	4,070	65
12	95	1,280	168	2,170	686	1,170	373	804	150	115	2,740	63
13	92	1,340	163	1,280	707	1,770	351	1,030	131	103	1,450	61
14	109	1,060	152	993	1,370	2,200	332	1,020	116	92	1,120	58
15	128	842	174	900	2,140	2,480	314	1,080	118	84	893	54
16	137	1,130	207	851	2,670	2,810	300	965	116	75	669	54
17	137	1,700	264	875	3,620	3,140	288	682	120	71	477	59
18	180	1,900	954	876	4,740	3,340	280	488	137	63	360	55
19	185	1,660	1,580	794	3,980	2,950	284	373	131	58	291	54
20	158	1,160	1,550	709	2,520	1,940	284	303	119	53	246	54
21	133	842	1,230	639	1,550	1,300	282	257	315	49	213	52
22	112	698	980	585	1,700	1,060	276	224	282	46	185	51
23	98	600	1,130	546	1,990	918	275	215	199	45	166	52
24	93	528	1,620	540	2,250	798	279	204	153	234	153	53
25	90	462	2,180	574	2,540	734	660	211	138	407	176	54
26	91	414	1,660	723	2,660	770	1,230	927	120	390	365	59
27	100	368	3,200	957	2,340	1,030	1,060	1,050	118	448	319	60
28	178	327	3,680	967	1,690	1,470	716	850	118	332	245	57
29	1,070	314	3,180	836	------	1,560	541	560	106	281	193	55
30	1,780	308	1,900	719	------	1,360	448	439	97	270	159	54
31	2,670	------	1,120	636	------	1,130	------	366	------	269	137	------
TOTAL	8,461	50,133	29,621	45,158	46,845	49,340	15,268	14,944	5,372	5,216	36,502	2,075
MEAN	273	1,671	956	1,457	1,673	1,592	509	482	179	168	1,177	69.2
MAX	2,670	8,700	3,680	5,480	4,740	3,340	1,230	1,080	315	448	4,560	123
MIN	48	308	152	540	459	734	275	204	97	45	137	51
CFSM	.24	1.48	.85	1.29	1.48	1.41	.45	.43	.16	.15	1.04	.06
IN.	.28	1.65	.98	1.49	1.54	1.63	.50	.49	.18	.17	1.20	.07
AC-FT	16,780	99,440	58,750	89,570	92,920	97,870	30,280	29,640	10,660	10,350	72,400	4,120

WTR YR 1971 TOTAL 308,935 MEAN 846 MAX 8,700 MIN 45 CFSM .75 IN 10.18 AC-FT 612,800

PEAK DISCHARGE (BASE, 14,000 CFS).--NO PEAK ABOVE BASE.

07363300 Hurricane Creek near Sheridan, Ark.

LOCATION.--Lat 34°19'10", long 92°20'40", in NW¼NE¼ sec.6, T.4 S., R.12 W., Grant County, on downstream side of bridge on U.S. Highway 270, 2.8 miles downstream from Simpson Creek, 3.5 miles east of Sheridan, and at mile 16.9.

DRAINAGE AREA.--204 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements 1957-61. October 1961 to current year. Gage-height records and results of discharge measurements 1960-1963 are published in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 200.00 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--10 years, 191 cfs (12.65 inches per year, 138,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 890 cfs Aug. 7 (gage height, 12.15 ft); minimum, 0.35 cfs July 22, 23; minimum gage height, 4.25 ft June 21, July 22, 23.

Period of record: Maximum discharge, 18,100 cfs Apr. 24, 1964 (gage height, 15.93 ft); minimum discharge, 0.10 cfs Oct. 30 to Nov. 3, 1963.

Maximum stage since at least 1939, 18.55 ft June 27, 1960, from floodmarks (discharge, 52,300 cfs by contracted-opening measurement).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ark. 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	27	15	90	48	77	112	20	23	16	29	24
2	2.0	19	14	101	42	72	96	16	17	13	20	25
3	1.6	16	15	87	37	112	103	15	15	24	18	24
4	.82	35	15	129	36	260	87	12	28	32	113	23
5	.88	26	14	342	50	309	68	10	42	22	350	22
6	1.3	18	13	470	116	239	58	9.1	25	23	593	20
7	1.7	13	11	391	111	199	56	8.7	16	17	840	19
8	2.1	11	9.2	184	88	161	53	10	11	10	690	19
9	3.5	13	8.3	126	76	122	46	11	8.8	7.0	669	18
10	8.4	15	7.9	110	63	103	41	14	8.2	5.0	466	16
11	21	53	8.0	97	48	134	39	18	9.3	3.6	167	11
12	27	37	8.8	89	50	143	32	47	7.9	.90	106	8.0
13	20	24	9.3	83	142	162	23	64	7.0	.42	145	7.4
14	12	23	10	80	273	366	31	116	6.4	.49	138	6.5
15	29	41	13	83	214	529	31	86	6.8	.70	99	5.8
16	19	84	16	82	146	375	28	49	6.1	.99	90	5.6
17	9.6	56	91	72	116	207	27	32	16	1.2	83	5.3
18	6.0	38	173	65	99	148	27	22	13	1.3	79	5.0
19	4.7	33	128	58	89	123	26	19	7.5	3.5	59	4.7
20	3.8	33	89	53	91	127	26	11	1.3	2.9	36	5.1
21	3.0	36	81	48	121	119	26	9.2	.72	.73	32	5.0
22	2.4	46	161	41	166	88	25	7.7	4.3	.38	29	4.7
23	2.2	34	222	41	290	77	28	6.5	4.6	.37	27	5.3
24	2.5	27	274	46	228	75	62	6.8	3.9	2.0	57	5.4
25	2.4	31	271	127	150	73	145	56	4.1	36	88	5.1
26	2.6	32	174	131	118	154	107	251	4.5	64	53	4.8
27	4.3	20	121	98	104	320	68	176	5.8	74	38	4.6
28	53	17	87	76	96	251	47	80	4.9	147	32	3.9
29	159	16	78	60	-------	180	36	53	4.6	102	29	3.1
30	110	15	72	53	-------	156	28	41	8.9	89	25	2.8
31	92	-------	70	52	-------	139	-------	30	-------	49	23	-------
TOTAL	570.30	889	2,259.5	3,565	3,208	5,600	1,582	1,301.0	321.62	750.34	5,223	319.5
MEAN	18.4	29.6	72.9	115	115	181	52.7	42.(	10.7	24.2	168	10.7
MAX	159	84	274	470	290	529	145	251	42	147	840	25
MIN	.82	11	7.9	41	36	72	23	6.5	.72	.36	18	2.8
CFSM	.09	.15	.36	.56	.56	.89	.26	.21	.05	.12	.82	.05
IN.	.10	.16	.41	.65	.58	1.02	.29	.24	.06	.14	.95	.06
AC-FT	1,130	1,760	4,480	7,070	6,360	11,110	3,140	2,580	638	1,490	10,360	634

CAL YR 1970 TOTAL 75,741.55 MEAN 208 MAX 3,570 MIN .22 CFSM 1.02 IN 13.81 AC-FT 150,200
WTR YR 1971 TOTAL 25,589.26 MEAN 70.1 MAX 840 MIN .36 CFSM .34 IN 4.67 AC-FT 50,760

PEAK DISCHARGE (BASE, 5,000 CFS).--NO PEAK ABOVE BASE.

07363500 Saline River near Rye, Ark.

LOCATION.--Lat 33°42'00", long 92°01'33", in SW¼NW¼ sec.3, T.12 S., R.9 W., Bradley County, near left bank on downstream side of bridge on State Highway 15, 3.6 miles southwest of Rye, 5.8 miles upstream from Hudgin Creek, and at mile 71.0.

DRAINAGE AREA.--2,062 sq mi.

PERIOD OF RECORD.--August 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 97.06 ft above mean sea level. Prior to May 30, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 2,477 cfs (16.31 inches per year, 1,795,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,220 cfs July 25 (gage height, 15.15 ft); minimum, 41 cfs Oct. 6 (gage height, 5.00 ft).

Period of record: Maximum discharge, 74,500 cfs May 18, 1968 (gage height, 31.40 ft); minimum, 3.5 cfs Sept. 27, 28, 1954 (gage height, 3.84 ft).

Flood of April 1927 reached a stage of 30.5 ft (discharge, about 73,000 cfs).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	1,250	351	2,670	841	2,470	1,710	759	491	178	595	222
2	53	1,590	326	2,220	743	2,270	1,550	615	390	314	517	199
3	53	1,960	314	1,470	679	1,830	1,320	506	338	290	1,270	184
4	52	2,320	300	1,150	631	1,400	1,150	418	286	219	1,520	172
5	45	2,670	284	1,150	631	1,100	1,010	377	258	432	1,490	162
6	42	2,980	268	1,220	568	1,250	907	351	252	491	1,860	157
7	42	3,200	261	1,470	553	1,430	824	326	270	418	2,350	153
8	56	3,030	249	1,790	615	1,710	743	300	281	326	2,820	148
9	62	2,040	238	2,040	890	1,920	679	284	270	265	3,300	142
10	79	1,040	236	2,320	1,110	2,000	615	351	256	223	4,060	137
11	104	743	225	2,620	1,110	1,960	553	759	238	197	3,890	133
12	103	615	219	2,870	1,010	1,790	522	1,250	241	187	3,740	130
13	98	743	208	3,080	890	1,920	491	2,420	227	178	3,690	127
14	99	1,150	197	3,250	808	2,570	461	3,030	197	166	3,670	124
15	97	1,320	195	2,980	874	2,820	432	2,820	178	154	3,510	123
16	96	1,180	199	2,090	1,290	2,920	404	2,420	164	144	2,890	117
17	95	1,010	199	1,320	1,710	2,920	377	1,920	162	137	1,810	112
18	96	1,110	216	1,080	2,040	2,920	364	1,470	154	129	1,080	105
19	135	1,430	284	1,010	2,320	2,980	364	1,040	152	122	737	100
20	150	1,630	822	975	2,720	3,080	351	743	164	118	553	97
21	160	1,670	1,250	907	3,030	3,140	377	553	166	113	440	93
22	140	1,400	1,430	824	3,300	3,030	377	432	164	106	376	91
23	120	1,040	1,320	743	3,200	2,570	364	364	263	103	323	90
24	110	792	1,150	858	2,720	1,830	351	314	302	1,500	277	86
25	101	663	1,180	1,040	2,320	1,360	351	281	227	3,580	290	84
26	96	568	1,470	890	2,220	1,150	364	268	195	1,870	228	80
27	94	506	1,750	808	2,320	1,080	711	268	172	1,430	235	76
28	91	446	2,000	874	2,420	1,110	1,110	526	162	1,180	356	73
29	91	390	2,220	1,040	------	1,320	1,150	874	148	958	371	73
30	118	364	2,470	1,080	------	1,630	941	858	152	821	308	71
31	692	------	2,670	975	------	1,790	------	647	------	708	255	------
TOTAL	3,419	40,850	24,501	48,814	43,563	63,350	20,923	27,564	6,920	17,137	48,771	3,661
MEAN	110	1,362	790	1,575	1,556	2,044	697	889	231	553	1,573	122
MAX	692	3,200	2,670	3,250	3,300	3,140	1,710	3,030	491	3,580	4,060	222
MIN	42	364	195	743	553	1,080	351	268	148	103	228	71
CFSM	.05	.66	.38	.76	.75	.99	.34	.43	.11	.27	.76	.06
IN	.06	.74	.44	.88	.79	1.14	.38	.50	.12	.31	.88	.07
AC-FT	6,780	81,030	48,600	96,820	86,140	125,700	41,500	54,670	13,730	33,990	96,740	7,260

CAL YR 1970 TOTAL 895,509 MEAN 2,453 MAX 18,000 MIN 41 CFSM 1.19 IN 16.16 AC-FT 1,776,000
WTR YR 1971 TOTAL 349,453 MEAN 957 MAX 4,060 MIN 42 CFSM .46 IN 6.30 AC-FT 693,100

PEAK DISCHARGE (BASE, 10,000 CFS).--NO PEAK ABOVE BASE.

07364100 Ouachita River near Arkansas-Louisiana State line

LOCATION.--Lat 33°01'52", long 92°05'16", in SE¼NE¼ sec.25, T.19 S., R.10 W., Union County, on right bank 500 ft below Lock and Dam No. 6, 1.6 miles north of Arkansas-Louisiana State line, 3.5 miles downstream from Missouri Pacific Railroad Co. bridge, and 4.5 miles southeast of Felsenthal, Ark.

DRAINAGE AREA.--10,787 sq mi.

PERIOD OF RECORD.--April 1958 to current year (discharge above 19.0 ft stage not determined). Gage-height record for some periods collected at same site since 1912 are contained in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 44.09 ft above mean sea level (levels by Corps of Engineers). Prior to Aug. 26, 1958, nonrecording gage at same site and datum. Auxiliary water-stage record. 16 miles downstream at same datum. Prior to Aug. 26, 1958, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 17,400 cfs Aug. 12; maximum gage height, 18.66 ft Aug. 12; minimum daily discharge, 190 cfs Sept. 13; minimum gage height, 6.58 ft Sept. 14.

Period of record: Maximum gage height, 43.04 ft May 14, 15, 1958 (discharge not determined); minimum daily discharge, 190 cfs Sept. 13, 1971; minimum gage height, 6.58 ft Sept. 14, 1971.

1912-71: Maximum gage height, 44.2 ft Apr. 11, 12, 1945; minimum, -0.3 ft Nov. 11, 1916; minimum since 1928, 5.8 ft Aug. 25, 1951.

REMARKS.--Records poor. Discharge computed for stages below bankfull, about 19 ft. Flow regulated by Lake Ouachita since 1952 (usable capacity, 1,903,000 acre-ft), Lake Hamilton since 1932 (usable capacity, 119,960 acre-ft), Lake Catherine since 1925 (usable capacity, 21,300 acre-ft), Lake Greeson since 1949 (usable capacity, 330,000 acre-ft), by DeGray Lake since August 1969 (capacity, 881,900 acre-ft), and by navigation pools. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,080	7,580	2,630	7,410	7,410	12,200	7,450	2,290	1,770	1,130	16,800	1,800
2	1,160	7,860	2,080	7,410	6,680	11,400	6,590	3,160	2,030	1,180	16,300	1,900
3	1,030	7,880	2,100	7,430	5,180	10,300	5,860	3,580	1,990	1,210	15,000	2,000
4	1,040	7,830	2,420	7,500	4,660	9,530	4,850	3,230	1,870	1,370	12,600	1,700
5	1,030	7,930	3,450	7,790	5,020	9,100	4,320	2,310	1,940	1,530	12,600	1,500
6	942	8,530	3,980	9,010	5,770	9,310	4,300	1,820	2,230	1,590	14,200	1,600
7	885	8,470	3,990	10,100	6,670	10,300	4,070	1,340	2,430	1,550	15,300	1,500
8	1,000	6,260	3,980	10,900	6,960	10,600	3,270	1,950	2,390	1,490	16,000	850
9	1,110	4,470	3,720	11,800	6,660	9,800	2,740	1,700	2,170	1,410	16,400	800
10	1,180	3,250	3,480	12,100	4,990	8,340	2,760	1,720	1,800	1,420	17,000	750
11	1,300	4,500	3,390	12,900	4,660	7,710	2,710	2,650	1,580	1,710	17,300	750
12	1,640	4,710	3,380	13,100	5,530	8,270	2,290	5,230	1,420	1,610	17,300	750
13	1,580	4,960	3,460	11,700	6,600	9,690	1,810	9,620	1,430	1,140	17,100	190
14	1,550	4,540	3,520	10,700	6,930	11,300	1,720	12,900	1,310	1,030	16,200	650
15	1,540	4,570	3,520	10,200	8,430	14,600	1,720	14,700	1,350	944	15,400	750
16	1,520	4,820	3,490	9,930	9,400	15,700	1,720	15,400	1,260	899	14,800	800
17	1,500	5,710	3,290	10,200	9,420	16,100	1,570	15,300	1,210	868	11,500	2,000
18	1,520	6,300	3,330	10,300	9,020	16,300	1,670	15,100	1,000	969	9,190	4,000
19	1,640	6,320	4,230	9,360	8,710	16,200	1,780	14,100	908	1,200	7,490	2,000
20	1,720	6,250	6,090	6,780	8,900	15,500	1,900	11,100	926	1,350	4,490	1,500
21	1,650	6,720	7,240	5,900	9,320	13,700	1,940	7,530	944	1,260	4,020	920
22	1,540	5,650	6,860	6,190	10,600	11,800	2,580	6,180	956	1,200	2,830	900
23	1,450	4,750	6,650	7,110	11,300	11,600	4,560	4,400	1,010	1,140	1,820	2,000
24	1,500	4,370	6,820	7,520	12,100	10,600	5,660	3,040	974	1,170	2,400	1,200
25	1,600	3,580	7,190	7,820	14,700	10,100	5,480	2,090	1,020	4,700	2,520	1,170
26	1,730	2,950	8,260	8,100	14,300	9,030	4,050	2,060	995	4,980	2,000	1,310
27	2,280	4,630	8,880	8,140	14,200	7,930	2,560	1,760	1,010	14,000	1,410	1,410
28	2,710	5,960	8,850	8,180	13,700	7,910	1,710	1,910	1,050	15,900	1,470	1,320
29	2,850	5,720	8,370	8,140	-------	8,970	1,620	1,830	1,100	16,200	1,630	1,290
30	5,200	4,320	7,380	7,930	-------	9,240	1,640	1,900	1,110	16,700	1,550	1,260
31	7,130	-------	6,660	7,680	-------	8,100	-------	1,760	-------	16,800	2,700	-------
MAX	7,130	8,530	8,880	13,100	14,700	16,300	7,450	15,400	2,430	16,800	17,300	4,000
MIN	885	2,950	2,060	5,900	4,660	7,710	1,570	1,700	908	868	1,410	190

07364150 Bayou Bartholomew near McGehee, Ark.

LOCATION.--Lat 33°37'40", long 91°26'45", in NE¼SW¼ sec.30, T.12 S., R.3 W., Desha County, near center of stream on downstream side of bridge on State Highway 4, 2.7 miles west of McGehee, 17.5 miles downstream from Ables Creek, and at mile 200.5.

DRAINAGE AREA.--592 sq mi.

PERIOD OF RECORD.--October 1938 to September 1942, October 1945 to current year. Gage-height records collected and occasional discharge measurements made by Corps of Engineers at this site since August 1938. Daily stages 1940 to date and results of discharge measurements 1938, 1947 to date are published in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 121.48 ft above mean sea level, supplementary adjustment of 1941. Prior to Sept. 7, 1949, nonrecording gage at same site and datum. Since Jan. 20, 1971, auxiliary water-stage recorder 14 miles upstream.

AVERAGE DISCHARGE.--30 years (1939-42, 1946-71), 650 cfs (14.91 inches per year, 470,900 acre-ft per year).

EXTREMES.--Maximum and minimum discharge for the water years 1939-42, 1946-56, are contained in the following table:

Water year	Maximum daily Date	Discharge (cfs)	Gage height (feet)	Minimum daily Date	Discharge (cfs)	Gage height (feet)
1939	Feb. 20, 28, 1939	4,550	-	at times	26	-
1940	July 15, 1940	1,480	-	Feb. 2-3, 1940	20	-
1941	Mar. 13, 1941	2,140	-	at times	26	-
1942	May 10-11, 1942	3,120	-	at times	35	-
1946	Jan. 20-21, 1946	5,280	-	Sept. 11-16, 1946	49	-
1947	June 5-6, 1947	2,280	-	at times	45	-
1948	Feb. 22, 1948	4,300	-	Sept. 5, 1948	45	-
1949	Feb. 6-7, 1949	3,200	-	at times	49	-
1950	Jan. 21-23, 1950	4,720	-	Aug. 24, 1950	92	-
1951	Jan. 24-25, 1951	2,670	-	Sept. 8, 1951	65	-
1952	Feb. 9, 1952	2,670	-	Aug. 27-30, 1952	26	-
1953	May 25, 1953	5,660	-	at times	32	-
1954	Jan. 31-Feb. 1, 1954	1,530	-	July 30, 1954	3.2	-
1955	Apr. 18-19, 1955	3,000	-	Aug. 6, 1955	4.5	-
1956	Feb. 13-15, 18-19, 1956	3,420	-	Aug. 15-23, 1956	.20	-

Current year: Maximum discharge, 1,150 cfs Aug. 11; maximum gage height, 9.79 ft Aug. 13; minimum discharge, 20 cfs July 23, 24; minimum gage height, 0.26 ft July 24.

Period of record: Maximum discharge, 6,870 cfs May 11, 1958 (gage height, 24.49 ft); minimum, 0.20 cfs Aug. 15-23, 1956.

Maximum stage since at least 1930, that of May 11, 1958. Flood in 1932 reached a stage of 22.4 ft, from floodmarks.

REMARKS.--Records fair except those for Oct. 1, 1970, to Sept. 30, 1971, which are good. Some diversions above station for irrigation. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Results of 118 discharge measurements for the period October 1938 to September 1958 furnished by Corps of Engineers. Gage-height record for the period October 1938 to September 1942 and October 1945 to January 4, 1970, furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1938 TO SEPTEMBER 1939

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	26	29	98	1,230	4,380	1,880	1,420	476	152	152	41
2	38	26	29	98	1,390	4,300	1,850	1,370	490	138	167	41
3	35	26	29	104	1,670	4,220	1,820	1,210	490	138	167	38
4	32	29	35	117	2,110	4,180	1,760	1,160	520	131	159	38
5	32	29	35	358	2,520	4,020	1,700	1,060	520	124	138	38
6	32	29	32	504	3,040	3,780	1,730	970	536	145	124	38
7	32	29	32	636	3,540	3,580	1,760	926	520	183	104	35
8	32	29	32	710	3,740	3,390	1,730	838	476	226	98	35
9	32	29	32	730	3,980	3,160	1,730	690	476	262	92	35
10	32	29	32	772	4,100	2,970	1,730	672	476	289	92	35
11	32	29	32	772	4,140	2,700	1,790	636	504	298	86	35
12	32	29	32	772	4,180	2,520	1,820	568	536	298	92	32
13	32	32	32	882	4,180	2,280	1,790	520	584	298	75	32
14	32	32	32	970	4,180	2,010	1,820	462	618	289	70	32
15	32	32	32	1,110	4,340	1,850	1,820	394	618	271	65	32
16	29	32	32	1,160	4,430	1,670	1,850	370	618	262	60	32
17	29	32	32	1,210	4,470	1,530	1,910	328	618	253	57	29
18	29	32	32	1,230	4,470	1,370	2,070	289	568	244	53	29
19	29	35	32	1,230	4,470	1,230	2,140	271	536	226	53	29
20	29	35	32	1,230	4,550	1,080	2,140	235	490	217	49	29
21	29	35	35	1,230	4,470	970	2,180	208	448	199	45	29
22	29	32	35	1,210	4,470	816	2,110	183	406	183	41	29
23	29	32	38	1,180	4,470	860	2,040	199	348	175	41	26
24	29	32	41	1,160	4,340	636	1,980	175	328	167	41	26
25	29	32	45	1,130	4,380	600	1,980	175	308	159	41	26
26	26	32	53	1,080	4,470	490	1,760	226	271	138	41	26
27	26	29	57	1,060	4,510	552	1,730	289	244	124	41	26
28	26	29	75	1,010	4,550	584	1,650	420	226	131	41	26
29	26	29	80	970	------	600	1,530	406	191	145	41	26
30	26	29	92	860	------	1,370	1,450	420	159	145	41	29
31	26	------	98	1,160	------	1,700	------	434	------	145	41	------
TOTAL	944	912	1,286	26,743	106,390	65,398	55,250	17,524	13,599	6,155	2,408	954
MEAN	30.5	30.4	41.5	863	3,800	2,110	1,842	565	453	199	77.7	31.8
MAX	41	35	98	1,230	4,550	4,380	2,180	1,420	618	298	167	41
MIN	26	26	29	98	1,230	490	1,450	175	159	124	41	26
CFSM	.05	.05	.07	1.46	6.42	3.56	3.11	.95	.77	.34	.13	.05
IN.	.06	.06	.08	1.68	6.69	4.11	3.47	1.10	.85	.39	.15	.06
AC-FT	1,870	1,810	2,550	53,040	211,000	129,700	109,600	34,760	26,970	12,210	4,780	1,890

WTR YR 1939 TOTAL 297,563 MEAN 815 MAX 4,550 MIN 26 CFSM 1.38 IN 18.70 AC-FT 590,200

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1939 TO SEPTEMBER 1940

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	26	38	92	23	618	244	1,110	110	65	380	110
2	29	26	41	98	20	600	253	1,060	98	244	348	110
3	29	26	45	110	20	568	262	1,010	92	370	328	110
4	29	26	49	117	23	536	271	948	80	536	298	98
5	32	26	49	117	26	476	271	882	75	710	271	92
6	32	23	49	117	29	448	262	838	65	904	271	131
7	32	23	49	110	35	382	330	794	61	1,010	253	152
8	32	26	49	98	86	348	394	750	61	1,160	235	145
9	32	26	45	92	183	318	462	710	57	1,210	199	124
10	32	26	45	86	159	289	490	672	57	1,280	175	98
11	29	29	45	80	253	253	536	618	57	1,310	175	75
12	29	32	41	65	299	253	618	568	57	1,310	167	65
13	29	45	41	61	298	382	750	520	57	1,420	159	53
14	29	45	41	65	289	584	838	476	57	1,450	152	49
15	29	45	45	65	280	838	882	434	61	1,480	138	45
16	26	49	45	65	271	816	904	406	70	1,370	124	41
17	26	49	49	61	290	816	904	382	70	1,310	110	41
18	26	49	49	57	308	750	970	358	70	1,260	98	41
19	26	49	49	53	358	672	1,130	338	70	1,230	104	41
20	26	49	49	49	434	584	1,260	318	70	1,180	110	41
21	26	49	45	49	490	504	1,340	298	86	1,160	110	38
22	26	45	45	45	520	434	1,420	280	75	1,180	110	35
23	26	45	49	41	520	382	1,420	253	70	1,160	117	35
24	26	41	57	35	536	328	1,390	226	65	1,130	117	41
25	26	41	53	35	568	298	1,390	199	65	1,040	110	49
26	26	41	61	35	584	280	1,370	183	65	948	117	53
27	26	38	70	35	600	262	1,340	152	61	838	117	61
28	26	38	70	35	618	244	1,260	152	57	730	124	61
29	26	38	70	32	618	235	1,210	138	70	618	124	61
30	26	38	80	26	------	235	1,110	124	80	550	117	57
31	26	------	80	23	------	226	------	117	------	462	117	------
TOTAL	869	1,109	1,593	2,049	8,758	13,959	25,289	15,314	2,089	30,625	5,375	2,153
MEAN	28.0	37.0	51.4	66.1	302	450	843	494	69.6	988	173	71.8
MAX	32	49	80	117	618	838	1,420	1,110	110	1,480	380	152
MIN	26	23	38	23	20	226	244	117	57	65	98	35
CFSM	.05	.06	.09	.11	.51	.76	1.42	.83	.12	1.67	.29	.12
IN.	.05	.07	.10	.13	.55	.88	1.59	.96	.13	1.92	.34	.14
AC-FT	1,720	2,200	3,160	4,060	17,370	27,690	50,160	30,380	4,140	60,740	10,660	4,270

CAL YR 1939 TOTAL 297,992 MEAN 816 MAX 4,550 MIN 23 CFSM 1.38 IN 18.73 AC-FT 591,100
WTR YR 1940 TOTAL 109,182 MEAN 298 MAX 1,480 MIN 20 CFSM .50 IN 6.86 AC-FT 216,600

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1940 TO SEPTEMBER 1941

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	35	690	1,180	636	882	904	1,080	152	65	280	53
2	49	35	618	1,340	654	860	838	1,130	138	65	253	57
3	45	32	730	1,420	710	860	794	1,230	131	75	217	70
4	41	32	710	1,450	772	860	794	1,310	117	75	183	75
5	38	29	690	1,420	838	838	794	1,420	104	75	167	75
6	38	29	672	1,390	926	838	794	1,510	98	80	145	70
7	35	29	690	1,340	970	1,040	794	1,560	92	86	138	70
8	35	32	690	1,280	1,010	1,180	794	1,560	92	92	124	65
9	32	32	690	1,230	1,060	1,650	816	1,590	92	98	117	61
10	32	45	690	1,160	1,110	1,820	816	1,560	86	117	110	61
11	29	53	690	1,110	1,160	1,940	816	1,510	86	145	104	61
12	29	61	690	1,060	1,130	2,070	816	1,480	86	159	104	57
13	29	61	772	1,010	1,080	2,140	772	1,390	80	244	98	57
14	29	70	838	948	1,060	2,110	772	1,280	80	348	98	57
15	29	117	926	970	1,010	2,110	730	1,210	80	338	98	53
16	26	152	1,010	904	948	2,110	690	1,110	80	298	92	53
17	26	183	1,110	838	926	2,040	654	1,010	80	271	86	53
18	26	191	1,160	794	838	1,980	654	926	80	262	80	49
19	26	199	1,210	772	754	1,850	636	838	75	271	80	49
20	26	208	1,260	710	772	1,790	654	730	75	308	75	45
21	26	217	1,260	618	750	1,730	730	730	70	348	75	45
22	26	235	1,260	584	794	1,620	750	584	70	382	70	45
23	26	280	1,260	568	816	1,560	750	490	70	434	65	45
24	26	308	1,230	536	838	1,480	750	434	70	448	65	45
25	26	338	1,210	520	882	1,420	838	370	70	476	65	45
26	26	382	1,180	490	882	1,340	982	328	70	476	65	45
27	26	462	1,130	490	860	1,280	970	289	70	462	61	45
28	26	536	1,110	520	860	1,210	1,010	253	70	448	57	45
29	26	600	1,110	536	------	1,130	1,010	217	65	406	57	41
30	29	654	1,110	600	------	1,060	1,060	191	65	370	57	41
31	29	------	1,110	618	------	970	------	159	------	328	57	------
TOTAL	965	5,637	29,506	28,406	25,096	45,768	24,082	29,479	2,594	8,050	3,343	1,633
MEAN	31.1	188	952	916	896	1,476	803	951	86.5	260	108	54.4
MAX	53	654	1,260	1,450	1,160	2,140	1,060	1,590	152	476	280	75
MIN	26	29	618	490	636	838	636	159	65	65	57	41
CFSM	.05	.32	1.61	1.55	1.51	2.49	1.36	1.61	.15	.44	.18	.09
IN.	.06	.35	1.85	1.78	1.58	2.88	1.51	1.85	.16	.51	.21	.10
AC-FT	1,910	11,180	58,530	56,340	49,760	90,780	47,770	58,470	5,150	15,970	6,630	3,240

CAL YR 1940 TOTAL 141,719 MEAN 387 MAX 1,480 MIN 20 CFSM .65 IN 8.91 AC-FT 281,100
WTR YR 1941 TOTAL 204,549 MEAN 560 MAX 2,140 MIN 26 CFSM .95 IN 12.85 AC-FT 405,700

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1941 TO SEPTEMBER 1942

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	138	131	145	92	462	816	2,010	504	75	38	38
2	41	124	145	191	86	490	794	2,280	420	75	38	41
3	41	104	152	244	86	520	772	2,380	382	80	38	45
4	45	92	152	262	86	552	750	2,520	328	86	38	45
5	45	80	145	271	80	600	750	2,700	298	92	35	38
6	45	75	131	289	86	636	750	2,820	280	92	35	38
7	45	70	117	298	86	672	750	2,930	260	92	35	38
8	45	70	110	328	92	772	880	3,010	244	92	35	38
9	45	70	92	348	104	948	1,230	3,080	226	86	38	35
10	45	65	80	370	117	1,130	1,670	3,120	208	80	38	38
11	45	65	75	382	117	1,210	2,010	3,120	175	75	38	38
12	45	65	70	382	117	1,260	2,280	3,080	167	70	41	38
13	41	61	70	370	124	1,280	2,520	3,010	145	61	41	38
14	41	61	65	348	117	1,280	2,560	2,930	131	53	45	38
15	41	57	61	328	110	1,260	2,630	2,850	124	45	49	35
16	45	57	61	308	110	1,260	2,630	2,670	117	45	57	35
17	45	53	61	289	117	1,230	2,630	2,450	110	41	57	35
18	49	53	57	262	131	1,210	2,630	2,350	110	41	53	35
19	49	49	57	244	159	1,160	2,560	2,240	98	38	53	35
20	49	49	57	226	183	1,110	2,520	2,140	92	38	49	35
21	49	45	57	208	183	1,040	2,520	2,040	86	38	49	35
22	49	45	57	183	191	970	2,450	1,880	80	38	45	38
23	49	75	57	167	208	926	2,280	1,730	80	38	45	38
24	49	80	57	159	253	860	2,140	1,510	75	41	41	38
25	45	92	57	152	308	816	2,010	1,370	75	45	41	41
26	45	92	57	131	382	838	1,880	1,160	75	45	38	41
27	70	92	57	124	434	904	1,820	992	75	45	38	41
28	61	92	57	110	448	926	1,730	926	75	41	38	41
29	61	104	61	104	------	926	1,850	794	75	41	38	41
30	61	117	65	92	------	904	1,880	672	75	38	38	41
31	104	------	75	98	------	860	------	600	------	38	38	------
TOTAL	1,531	2,292	2,546	7,413	4,607	29,012	54,692	67,364	5,190	1,805	1,300	1,151
MEAN	49.4	76.4	82.1	239	165	936	1,823	2,173	173	58.2	41.9	38.4
MAX	104	138	152	382	448	1,280	2,630	3,120	504	92	57	45
MIN	41	45	57	92	80	462	750	600	75	38	35	35
CFSM	.08	.13	.14	.40	.28	1.58	3.08	3.67	.29	.10	.07	.06
IN.	.10	.14	.16	.47	.29	1.82	3.44	4.23	.33	.11	.08	.07
AC-FT	3,040	4,550	5,050	14,700	9,140	57,550	108,500	133,600	10,290	3,580	2,580	2,280

CAL YR 1941 TOTAL 174,810 MEAN 479 MAX 2,140 MIN 41 CFSM .81 IN 10.98 AC-FT 346,700
WTR YR 1942 TOTAL 178,903 MEAN 490 MAX 3,120 MIN 35 CFSM .83 IN 11.24 AC-FT 354,900

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1945 TO SEPTEMBER 1946

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	462	1,560	970	3,900	2,310	2,490	600	1,530	167	104	61
2	104	448	1,480	1,080	3,660	2,070	2,700	568	1,650	159	104	61
3	131	434	1,450	1,160	3,420	1,880	2,820	520	1,700	152	98	61
4	191	406	1,420	1,280	3,230	1,700	2,890	504	1,730	145	104	57
5	217	370	1,350	1,450	2,930	1,530	2,890	490	1,820	145	110	57
6	253	338	1,370	1,730	2,740	1,510	2,890	490	1,820	145	117	53
7	289	318	1,310	1,850	2,630	1,340	2,850	490	1,790	138	110	53
8	348	308	1,280	2,380	2,560	1,310	2,850	490	1,700	138	110	53
9	358	280	1,230	3,120	2,820	1,260	2,700	490	1,650	183	110	53
10	462	280	1,180	3,660	3,230	1,180	2,630	476	1,560	183	104	53
11	536	289	1,160	4,100	3,420	1,130	2,490	476	1,480	167	98	49
12	552	318	1,130	4,430	3,580	1,060	2,310	462	1,310	159	92	49
13	672	328	1,130	4,720	3,740	992	2,180	462	1,210	159	92	49
14	730	382	1,110	4,850	3,820	948	1,980	462	1,110	152	86	49
15	794	406	1,060	4,970	3,860	860	1,790	462	970	145	80	49
16	838	476	1,010	5,140	3,860	926	1,670	462	860	145	75	49
17	860	536	948	5,180	3,860	992	1,510	476	772	145	70	53
18	882	618	948	5,230	3,820	1,040	1,340	490	690	138	70	53
19	860	710	904	5,230	3,820	1,080	1,230	490	618	138	70	57
20	860	860	882	5,280	3,780	1,110	1,110	536	552	152	65	57
21	838	992	838	5,280	3,700	1,160	1,010	568	476	159	61	53
22	860	1,130	816	5,230	3,580	1,130	926	568	406	183	61	53
23	816	1,230	772	5,140	3,420	1,160	860	584	358	226	61	57
24	772	1,340	772	5,060	3,270	1,130	772	600	318	217	61	57
25	730	1,480	794	5,060	3,120	1,080	730	690	289	191	61	57
26	690	1,560	794	4,890	2,970	1,110	690	816	262	159	61	57
27	654	1,590	794	4,800	2,740	1,160	672	948	235	138	61	57
28	600	1,590	794	4,720	2,520	1,420	672	1,110	217	117	61	57
29	552	1,590	816	4,470	------	1,730	672	1,230	199	117	61	57
30	520	1,560	838	4,300	------	2,040	654	1,340	183	110	61	57
31	504	------	904	4,140	------	2,310	------	1,390	------	104	61	------
TOTAL	17,565	22,629	32,884	120,900	94,000	41,658	52,978	19,740	29,465	4,776	2,540	1,638
MEAN	567	754	1,061	3,900	3,357	1,344	1,766	637	982	154	81.9	54.6
MAX	882	1,590	1,560	5,280	3,900	2,310	2,890	1,390	1,820	226	117	61
MIN	92	280	772	970	2,520	860	654	462	183	104	61	49
CFSM	.96	1.27	1.79	6.59	5.67	2.27	2.98	1.08	1.66	.26	.14	.09
IN.	1.10	1.42	2.07	7.60	5.91	2.62	3.33	1.24	1.85	.30	.16	.10
AC-FT	34,840	44,880	65,230	239,800	186,400	82,630	105,100	39,150	58,440	9,470	5,040	3,250

WTR YR 1946 TOTAL 440,773 MEAN 1,208 MAX 5,280 MIN 49 CFSM 2.04 IN 27.70 AC-FT 874,300

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1946 TO SEPTEMBER 1947

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	61	244	191	1,110	262	1,080	1,040	1,480	1,080	70	45
2	57	57	235	235	1,040	253	1,110	992	1,760	1,210	70	45
3	57	57	235	358	970	253	1,080	970	2,070	1,230	65	45
4	53	57	226	568	904	253	1,130	948	2,240	1,230	61	45
5	53	57	208	730	838	253	1,180	948	2,280	1,210	61	45
6	53	57	199	816	772	244	1,210	926	2,280	1,160	61	45
7	57	57	183	860	710	244	1,260	970	2,180	1,080	61	45
8	57	57	167	904	636	298	1,280	970	2,110	1,010	57	45
9	53	57	152	904	584	382	1,280	948	2,010	970	57	45
10	49	104	145	904	520	462	1,260	926	1,850	860	53	45
11	49	117	131	882	476	504	1,370	882	1,700	794	53	45
12	53	138	138	860	434	536	1,510	838	1,530	750	49	45
13	53	159	138	838	394	636	1,560	794	1,370	636	49	45
14	49	175	131	794	348	710	1,590	772	1,210	584	49	45
15	49	167	138	750	318	750	1,560	750	1,040	520	49	45
16	49	159	145	710	289	816	1,560	710	904	448	49	45
17	53	159	152	690	262	838	1,620	710	772	394	57	49
18	53	167	152	730	235	838	1,670	690	636	358	70	49
19	49	175	159	816	217	838	1,730	672	520	318	80	49
20	49	183	159	948	253	860	1,730	690	448	262	70	65
21	49	191	167	1,040	271	860	1,730	838	382	235	70	70
22	49	183	183	1,080	289	860	1,670	1,080	318	199	61	75
23	49	175	191	1,160	308	860	1,590	1,130	280	167	61	75
24	49	159	191	1,180	318	948	1,530	1,210	271	145	57	75
25	86	167	191	1,260	308	970	1,450	1,280	308	124	57	86
26	70	175	183	1,310	289	1,010	1,340	1,370	382	110	53	92
27	70	183	175	1,310	262	1,060	1,280	1,420	520	98	53	98
28	65	183	167	1,310	262	1,080	1,210	1,480	672	92	53	110
29	65	208	167	1,280	------	1,110	1,130	1,480	838	80	49	117
30	61	226	175	1,230	------	1,110	1,080	1,530	948	75	49	124
31	61	------	183	1,180	------	1,110	------	1,510	------	70	45	------
TOTAL	1,726	4,070	5,410	27,828	13,617	21,208	41,780	31,474	35,309	17,499	1,799	1,854
MEAN	55.7	136	175	898	486	684	1,393	1,015	1,177	564	58.0	61.8
MAX	86	226	244	1,310	1,110	1,110	1,730	1,530	2,280	1,230	80	124
MIN	49	57	131	191	217	244	1,080	672	271	70	45	45
CFSM	.09	.23	.30	1.52	.82	1.16	2.35	1.71	1.99	.95	.10	.10
IN.	.11	.26	.34	1.75	.86	1.33	2.63	1.98	2.22	1.10	.11	.12
AC-FT	3,420	8,070	10,730	55,200	27,010	42,070	82,870	62,430	70,040	34,710	3,570	3,680

CAL YR 1946 TOTAL 378,901 MEAN 1,038 MAX 5,280 MIN 49 CFSM 1.75 IN 23.81 AC-FT 751,600
WTR YR 1947 TOTAL 203,574 MEAN 558 MAX 2,280 MIN 45 CFSM .94 IN 12.79 AC-FT 403,800

07364150 Bayou Bartholomew near McGehee, Ark.--continued

CISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR CCTOBER 1947 TO SEPTEMBER 1948

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	65	490	394	794	3,460	3,200	654	394	92	104	53
2	124	70	462	434	838	3,580	3,200	600	370	86	110	49
3	110	80	434	490	860	3,700	3,160	536	338	86	117	49
4	98	92	406	520	882	3,660	3,080	490	308	80	124	49
5	92	104	382	568	926	3,660	2,850	448	271	80	138	45
6	80	104	358	584	970	3,700	2,700	434	244	75	138	53
7	75	191	328	672	1,010	3,740	2,630	462	217	70	138	53
8	70	208	328	794	1,160	3,700	2,560	568	191	65	138	53
9	65	183	370	948	1,340	3,620	2,380	618	175	61	138	53
10	61	199	382	1,010	1,530	3,540	2,210	672	159	57	138	53
11	61	280	406	1,060	1,700	3,420	2,040	730	145	53	124	53
12	61	358	448	1,060	1,940	3,310	1,850	816	138	53	124	53
13	61	406	448	1,06C	2,490	3,120	1,790	926	124	53	110	53
14	57	476	448	1,010	3,120	2,970	1,940	992	117	53	110	57
15	57	504	476	970	3,390	2,780	1,940	1,060	104	53	110	53
16	57	536	504	926	3,620	2,670	1,940	1,130	104	53	131	53
17	57	584	552	860	3,860	2,630	1,940	1,180	104	53	124	49
18	57	618	6CC	772	4,020	2,600	1,880	1,180	98	53	124	49
19	53	654	618	750	4,100	2,600	1,850	1,180	98	53	110	49
20	53	672	618	690	4,260	2,600	1,760	1,180	92	57	104	49
21	53	672	636	654	4,260	2,600	1,650	1,110	92	57	98	53
22	49	690	618	636	4,300	2,600	1,530	1,060	92	57	92	53
23	49	730	584	654	4,260	2,700	1,420	970	92	53	80	57
24	53	73C	568	654	4,140	2,700	1,310	904	86	53	75	57
25	53	690	536	636	4,060	2,670	1,210	816	80	53	70	57
26	57	672	504	654	3,980	2,700	1,110	750	80	53	70	57
27	65	636	490	654	3,820	2,820	1,010	672	80	61	65	53
28	65	60C	448	672	3,740	2,930	926	600	80	75	61	57
29	65	552	42C	710	3,580	3,010	794	552	86	92	61	57
30	61	520	382	75C	------	3,080	710	490	86	98	57	57
31	61	------	348	772	------	3,200	------	462	------	104	57	------
TOTAL	2,104	12,876	14,552	23,018	78,950	96,070	58,570	24,242	4,645	2,042	3,240	1,586
MEAN	67.9	429	471	743	2,722	3,099	1,952	782	155	65.9	105	52.9
MAX	124	730	636	1,060	4,300	3,740	3,200	1,180	394	104	138	57
MIN	49	65	328	394	794	2,600	710	434	80	53	57	45
CFSM	.11	.72	.80	1.26	4.60	5.23	3.30	1.32	.26	.11	.18	.09
IN.	.13	.81	.92	1.45	4.96	6.04	3.68	1.52	.29	.13	.20	.10
AC-FT	4,170	25,540	28,940	45,66C	156,600	190,600	116,200	48,080	9,210	4,050	6,430	3,150

CAL YR 1947 TOTAL 221,540 MEAN 608 MAX 2,280 MIN 45 CFSM 1.03 IN 13.95 AC-FT 440,200
WTR YR 1948 TOTAL 321,935 MEAN 880 MAX 4,300 MIN 45 CFSM 1.49 IN 20.23 AC-FT 638,60C

07364150 Bayou Bartholomew near McGhee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1948 TO SEPTEMBER 1949

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	53	794	348	2,740	1,010	2,280	1,060	244	131	75	175
2	53	57	794	358	2,820	970	2,310	1,340	235	117	61	159
3	53	57	772	476	2,930	926	2,310	1,560	217	110	53	145
4	53	57	772	568	3,080	882	2,280	1,760	208	104	53	138
5	53	61	772	618	3,160	838	2,240	1,980	217	104	49	131
6	53	61	710	772	3,200	794	2,110	2,110	217	104	49	124
7	49	61	672	904	3,200	750	1,980	2,210	208	104	53	110
8	49	65	618	1,060	3,160	690	1,850	2,280	217	98	57	104
9	49	65	584	1,280	3,120	654	1,730	2,280	226	92	61	104
10	49	65	536	1,480	3,010	618	1,620	2,240	226	92	65	98
11	49	65	504	1,620	2,930	600	1,480	2,180	226	86	70	92
12	49	70	462	1,670	2,820	672	1,370	2,070	226	86	75	92
13	49	70	430	1,670	2,630	794	1,260	1,940	226	86	75	86
14	49	70	406	1,620	2,520	992	1,130	1,790	235	131	80	86
15	49	70	348	1,560	2,310	1,010	1,060	1,650	244	191	98	80
16	49	80	308	1,450	2,180	1,040	970	1,510	244	191	110	80
17	49	80	289	1,390	2,040	1,040	882	1,420	226	191	131	80
18	49	104	262	1,390	1,880	1,010	816	1,370	226	191	145	86
19	49	131	253	1,390	1,730	992	730	1,310	235	183	159	86
20	49	145	235	1,390	1,650	926	672	1,080	235	183	175	92
21	49	167	235	1,420	1,560	860	568	970	235	183	244	110
22	49	217	235	1,510	1,450	860	504	860	244	167	280	124
23	53	253	244	1,670	1,390	816	448	750	253	145	298	131
24	53	318	253	1,820	1,310	816	394	654	244	138	298	124
25	53	382	262	1,850	1,230	1,080	358	552	235	131	298	124
26	53	476	262	1,910	1,180	1,480	318	490	208	159	289	124
27	53	536	262	1,980	1,130	1,620	318	434	191	152	280	131
28	53	600	253	2,140	1,060	1,790	394	382	167	138	271	131
29	53	730	280	2,240	------	1,910	584	328	152	124	262	131
30	53	750	308	2,380	------	2,040	816	299	138	104	244	117
31	53	------	338	2,560	------	2,180	------	271	------	86	208	------
TOTAL	1,579	5,916	13,453	44,494	63,420	32,660	35,782	41,129	6,605	4,102	4,666	3,395
MEAN	50.9	197	434	1,435	2,265	1,054	1,193	1,327	220	132	151	113
MAX	53	750	794	2,560	3,200	2,180	2,310	2,280	253	191	298	175
MIN	49	53	235	348	1,060	600	318	271	138	86	49	80
CFSM	.09	.33	.73	2.42	3.83	1.78	2.02	2.24	.37	.22	.26	.19
IN.	.10	.37	.85	2.80	3.99	2.05	2.25	2.58	.42	.26	.29	.21
AC-FT	3,130	11,730	26,680	88,250	125,800	64,780	70,970	81,580	13,100	8,140	9,260	6,730

CAL YR 1948 TOTAL 313,311 MEAN 856 MAX 4,300 MIN 45 CFSM 1.45 IN 19.69 AC-FT 621,500
WTR YR 1949 TOTAL 257,201 MEAN 705 MAX 3,200 MIN 49 CFSM 1.19 IN 16.16 AC-FT 510,200

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1949 TO SEPTEMBER 1950

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	1,880	244	1,280	3,540	3,010	3,820	476	568	138	183	348
2	104	1,910	226	1,130	3,420	2,850	3,620	600	504	131	175	504
3	98	1,910	159	1,480	3,310	2,670	3,420	816	476	131	159	600
4	98	1,850	183	1,670	3,200	2,490	3,200	1,010	476	124	145	890
5	124	1,820	175	1,760	3,120	2,310	2,970	1,180	490	124	131	772
6	138	1,730	159	1,820	3,040	2,110	2,780	1,340	536	124	131	816
7	199	1,670	159	1,880	3,010	1,910	2,670	1,480	600	131	124	838
8	280	1,620	159	2,140	3,010	1,730	2,630	1,590	654	131	124	838
9	358	1,530	152	2,240	3,040	1,560	2,600	1,700	710	131	131	838
10	490	1,450	145	2,310	3,080	1,390	2,520	1,790	730	124	175	838
11	618	1,390	235	2,420	3,120	1,260	2,450	1,850	690	124	199	816
12	750	1,310	348	2,520	3,160	1,560	2,310	1,880	636	117	199	794
13	860	1,230	600	2,670	3,500	2,070	2,180	1,910	568	117	208	730
14	948	1,180	926	2,820	3,820	2,450	2,010	1,910	504	117	208	690
15	1,040	1,110	1,210	3,040	3,980	2,700	1,820	1,910	434	124	199	654
16	1,080	1,040	1,390	3,350	4,020	2,930	1,670	1,850	382	138	175	654
17	1,130	970	1,530	3,660	4,060	3,160	1,510	1,790	328	145	159	750
18	1,130	904	1,650	3,980	4,100	3,350	1,370	1,730	289	152	145	926
19	1,130	838	1,730	4,340	4,060	3,500	1,260	1,650	262	192	131	1,080
20	1,130	772	1,820	4,640	4,020	3,860	1,160	1,530	235	192	117	1,230
21	1,130	690	1,820	4,720	3,900	4,060	1,080	1,450	208	152	110	1,340
22	1,130	636	1,850	4,720	3,820	4,180	904	1,370	199	192	104	1,420
23	1,180	584	1,820	4,720	3,740	4,260	860	1,280	183	145	98	1,480
24	1,230	520	1,790	4,640	3,620	4,340	794	1,210	167	145	92	1,480
25	1,310	462	1,730	4,510	3,500	4,380	750	1,110	167	192	98	1,450
26	1,420	420	1,670	4,380	3,390	4,340	690	1,040	167	145	117	1,420
27	1,510	370	1,620	4,260	3,230	4,340	636	948	167	145	117	1,340
28	1,620	338	1,530	4,100	3,120	4,300	568	860	159	145	117	1,260
29	1,670	298	1,480	3,940	------	4,220	520	772	152	175	145	1,160
30	1,790	271	1,390	3,820	------	4,060	504	710	145	159	199	1,060
31	1,850	------	1,340	3,660	------	3,940	------	618	------	167	244	------
TOTAL	27,662	32,703	31,280	98,620	97,930	95,290	55,276	41,360	11,786	4,309	4,619	28,816
MEAN	892	1,090	1,009	3,181	3,498	3,074	1,843	1,334	393	139	149	961
MAX	1,850	1,910	1,850	4,720	4,100	4,380	3,820	1,910	730	175	244	1,480
MIN	98	271	145	1,130	3,010	1,260	504	476	145	117	92	348
CFSM	1.51	1.84	1.70	5.37	5.91	5.19	3.11	2.25	.66	.23	.25	1.62
IN.	1.74	2.05	1.97	6.20	6.15	5.99	3.47	2.60	.74	.27	.29	1.81
AC-FT	54,870	64,870	62,040	195,600	194,200	189,000	109,600	82,040	23,380	8,550	9,160	57,160

CAL YR 1949 TOTAL 327,898 MEAN 898 MAX 3,200 MIN 49 CFSM 1.52 IN 20.60 AC-FT 650,400
WTR YR 1950 TOTAL 529,651 MEAN 1,451 MAX 4,720 MIN 92 CFSM 2.45 IN 33.28 AC-FT 1,051,000

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1950 TO SEPTEMBER 1951

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	948	131	110	191	2,420	1,420	838	600	138	262	394	104
2	860	131	110	235	2,350	1,340	860	520	131	253	392	98
3	750	131	208	476	2,240	1,260	860	462	124	328	382	92
4	672	131	208	730	2,110	1,180	904	420	117	298	370	80
5	600	131	208	948	1,980	1,160	926	382	117	271	370	75
6	536	124	262	1,080	1,850	1,080	948	358	117	262	358	70
7	490	124	271	1,180	1,940	1,040	970	338	117	253	338	70
8	448	117	280	1,260	2,040	992	970	328	117	253	338	65
9	406	117	289	1,280	2,110	948	970	318	117	271	308	75
10	370	110	298	1,280	2,140	730	970	328	117	289	280	75
11	338	110	318	1,280	2,210	860	948	338	124	328	244	75
12	308	110	328	1,280	2,240	816	926	338	145	358	217	80
13	280	104	338	1,310	2,240	750	904	328	145	394	183	98
14	262	104	338	1,340	2,240	710	882	328	159	406	159	104
15	244	104	338	1,420	2,210	654	838	308	175	420	138	110
16	226	117	328	1,530	2,140	618	816	298	199	434	124	110
17	208	117	318	1,670	2,040	584	772	289	199	434	117	117
18	191	117	298	1,910	1,940	636	730	280	191	434	110	117
19	183	117	298	2,110	1,980	690	690	262	226	434	110	124
20	175	117	289	2,310	1,940	710	654	253	253	434	98	131
21	167	117	280	2,450	1,910	710	618	244	271	434	98	138
22	159	117	271	2,560	1,880	710	904	235	289	448	98	145
23	159	117	271	2,630	1,820	710	1,040	226	308	448	92	152
24	152	117	271	2,670	1,760	690	1,040	217	328	462	92	145
25	145	110	262	2,670	1,700	654	1,010	208	338	462	98	145
26	145	110	262	2,630	1,650	618	992	199	348	448	104	145
27	145	110	253	2,600	1,590	584	948	191	338	434	110	145
28	138	110	244	2,490	1,510	672	860	175	328	448	110	145
29	138	110	226	2,520	------	794	772	167	308	434	110	145
30	138	110	217	2,560	------	838	672	152	280	420	110	145
31	138	------	208	2,520	------	860	------	145	------	406	110	------
TOTAL	10,119	3,492	8,200	53,120	56,180	26,018	26,232	9,235	6,164	11,660	6,152	3,327
MEAN	326	116	265	1,714	2,006	839	874	298	205	376	198	111
MAX	948	131	338	2,670	2,420	1,420	1,040	600	348	462	394	152
MIN	138	104	110	191	1,510	584	618	145	117	253	92	65
CFSM	.55	.20	.45	2.90	3.39	1.42	1.48	.50	.35	.64	.33	.19
IN.	.64	.22	.52	3.34	3.53	1.63	1.65	.58	.39	.73	.39	.21
AC-FT	20,070	6,930	16,260	105,400	111,400	51,610	52,030	18,320	12,230	23,130	12,200	6,600

CAL YR 1950 TOTAL 459,817 MEAN 1,260 MAX 4,720 MIN 92 CFSM 2.13 IN 28.89 AC-FT 912,000
WTR YR 1951 TOTAL 219,899 MEAN 602 MAX 2,670 MIN 65 CFSM 1.02 IN 13.82 AC-FT 436,200

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1951 TO SEPTEMBER 1952

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	92	145	1,210	1,390	1,340	1,040	1,060	308	69	35	32
2	152	92	145	1,230	1,620	1,260	1,010	992	308	61	32	41
3	159	92	138	1,210	1,820	1,180	1,040	904	308	61	32	41
4	167	92	145	1,180	2,040	1,180	1,130	838	289	61	32	41
5	167	92	152	1,130	2,240	1,110	1,180	772	280	69	32	45
6	167	98	152	1,060	2,420	1,060	1,280	710	271	70	32	45
7	159	98	167	992	2,560	1,040	1,390	636	271	75	32	45
8	152	98	175	948	2,630	1,010	1,480	584	271	70	32	45
9	138	98	244	860	2,670	1,040	1,530	520	280	65	32	45
10	131	98	235	816	2,630	1,130	1,530	476	289	61	35	45
11	117	104	262	772	2,560	1,280	1,510	448	289	57	38	45
12	110	117	289	730	2,490	1,510	1,450	406	289	53	45	45
13	104	124	308	690	2,450	1,670	1,560	382	280	49	45	49
14	98	138	382	636	2,420	1,850	1,650	370	271	45	45	53
15	92	152	448	584	2,380	1,940	1,650	370	262	45	49	53
16	86	167	490	552	2,310	2,010	1,650	394	244	41	49	57
17	86	175	552	504	2,240	2,070	1,670	394	226	41	49	57
18	80	175	654	476	2,180	2,110	1,700	406	208	41	49	61
19	80	175	730	448	2,040	2,140	1,700	394	191	41	61	61
20	80	167	838	420	2,010	2,110	1,700	370	167	41	57	61
21	75	159	970	394	1,980	2,070	1,670	348	145	38	53	61
22	75	152	1,040	434	1,880	2,110	1,620	318	124	38	49	65
23	75	145	1,060	520	1,850	2,070	1,560	298	110	35	45	70
24	75	145	1,080	618	1,760	1,980	1,530	280	104	32	35	80
25	75	145	1,080	690	1,700	1,820	1,480	262	92	32	29	104
26	75	152	1,080	730	1,620	1,670	1,420	253	80	35	29	124
27	75	152	1,110	860	1,560	1,530	1,340	244	70	38	26	145
28	75	152	1,130	992	1,480	1,370	1,280	253	65	35	26	152
29	75	152	1,180	1,110	1,390	1,230	1,210	271	70	35	26	152
30	80	145	1,180	1,180	------	1,160	1,130	289	65	38	26	152
31	80	------	1,210	1,280	------	1,040	------	298	------	38	32	------
TOTAL	3,312	3,943	18,771	25,256	60,320	48,090	43,090	14,540	6,227	1,502	1,189	2,072
MEAN	107	131	606	815	2,080	1,551	1,436	469	208	48.5	38.4	69.1
MAX	167	175	1,210	1,280	2,670	2,140	1,700	1,060	308	75	61	152
MIN	75	92	138	394	1,390	1,010	1,010	244	65	32	26	32
CFSM	.18	.22	1.02	1.38	3.51	2.62	2.43	.79	.35	.08	.06	.12
IN.	.21	.25	1.18	1.59	3.79	3.02	2.71	.91	.39	.09	.07	.13
AC-FT	6,570	7,820	37,230	50,100	119,600	95,390	85,470	28,840	12,350	2,980	2,360	4,110

CAL YR 1951 TOTAL 224,114 MEAN 614 MAX 2,670 MIN 65 CFSM 1.04 IN 14.08 AC-FT 444,500
WTR YR 1952 TOTAL 228,312 MEAN 624 MAX 2,670 MIN 26 CFSM 1.05 IN 14.35 AC-FT 452,900

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1952 TO SEPTEMBER 1953

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	49	406	167	476	1,760	3,160	1,530	4,980	80	134	32
2	124	49	406	167	600	1,670	3,080	1,650	4,780	80	122	32
3	110	49	382	159	672	1,590	2,970	1,700	4,590	76	110	32
4	98	49	370	152	690	1,560	2,820	1,880	4,360	72	95	44
5	86	49	338	152	690	1,530	2,670	2,390	4,140	72	85	41
6	80	49	318	152	690	1,510	2,520	2,700	3,830	68	76	38
7	75	49	308	159	672	1,530	2,420	2,970	3,540	64	68	38
8	70	49	298	183	654	1,560	2,280	3,120	3,230	60	64	38
9	65	49	318	208	654	1,590	2,180	3,200	2,920	60	56	41
10	65	61	338	226	636	1,590	2,070	3,230	2,570	56	52	38
11	61	65	370	235	654	1,620	1,980	3,230	2,230	52	48	38
12	57	70	394	235	838	1,700	1,940	3,230	1,920	48	44	38
13	57	70	420	235	970	1,790	1,940	3,230	1,630	44	41	35
14	57	75	420	226	1,060	1,850	1,880	3,230	1,380	38	38	32
15	53	75	420	226	1,160	1,880	1,790	3,310	1,140	38	38	32
16	53	80	406	217	1,210	1,910	1,670	3,600	960	38	35	32
17	53	104	382	208	1,310	1,910	1,560	4,060	760	38	35	32
18	53	138	348	199	1,420	2,010	1,450	4,380	612	38	35	32
19	53	167	318	191	1,530	2,110	1,340	4,720	486	44	38	41
20	53	179	308	175	1,650	2,180	1,230	5,100	370	52	35	41
21	49	183	280	167	1,850	2,240	1,130	5,360	290	64	35	41
22	49	175	262	159	1,940	2,420	1,060	5,500	234	80	32	38
23	49	167	244	183	1,980	2,630	992	5,590	185	95	32	38
24	49	175	217	191	1,980	2,780	970	5,640	140	110	32	35
25	49	208	208	183	1,980	2,890	992	5,660	122	128	35	35
26	49	262	191	183	1,940	2,970	1,060	5,600	105	155	35	32
27	49	310	175	191	1,910	3,000	1,110	5,600	95	162	35	32
28	49	350	167	199	1,850	3,160	1,110	5,490	85	169	35	35
29	45	382	159	215	------	3,230	1,110	5,380	85	162	35	38
30	45	406	145	280	------	3,230	1,370	5,280	85	155	35	38
31	49	------	167	358	------	3,230	------	5,180	------	148	32	------
TOTAL	1,992	4,155	9,483	6,201	33,666	66,710	53,854	122,760	51,850	2,546	1,622	1,089
MEAN	64.3	139	306	200	1,202	2,152	1,795	3,960	1,728	82.1	52.3	36.3
MAX	138	406	420	358	1,980	3,230	3,160	5,660	4,980	169	134	44
MIN	45	49	145	152	476	1,510	970	1,530	85	38	32	32
CFSM	.11	.23	.52	.34	2.03	3.64	3.03	6.69	2.92	.14	.09	.06
IN.	.13	.26	.60	.39	2.12	4.19	3.38	7.71	3.26	.16	.10	.07
AC-FT	3,950	8,240	18,810	12,300	66,780	132,300	106,800	243,500	102,800	5,050	3,220	2,160

CAL YR 1952 TOTAL 217,516 MEAN 595 MAX 2,670 MIN 26 CFSM 1.01 IN 13.69 AC-FT 432,200

WTR YR 1953 TOTAL 355,928 MEAN 975 MAX 5,660 MIN 32 CFSM 1.65 IN 22.37 AC-FT 706,000

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1953 TO SEPTEMBER 1954

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	41	60	90	1,530	382	80	472	217	7.2	3.6	12
2	38	41	60	90	1,500	350	80	564	185	9.0	3.6	14
3	38	41	95	85	1,450	330	76	714	162	8.0	3.6	12
4	32	41	110	80	1,380	310	76	822	141	8.0	3.6	12
5	32	41	105	80	1,300	280	76	900	116	9.0	3.6	10
6	32	41	155	80	1,210	270	76	962	100	9.0	3.6	10
7	32	41	148	80	1,090	261	72	1,050	85	9.0	3.6	10
8	32	41	134	80	1,010	261	72	1,070	72	9.0	3.6	16
9	32	41	141	80	900	252	72	1,120	60	9.0	3.6	14
10	32	41	134	105	804	252	76	1,120	52	8.0	3.6	14
11	32	41	134	141	714	243	193	1,120	41	8.0	3.6	12
12	32	41	141	169	628	234	406	1,090	32	7.2	3.6	12
13	38	41	162	201	548	225	548	1,140	26	5.7	3.6	12
14	38	41	177	234	472	209	660	1,120	20	4.5	3.6	11
15	41	41	185	270	406	193	714	1,090	16	4.5	3.6	11
16	44	41	193	310	360	177	768	1,030	14	4.0	3.6	11
17	44	41	185	360	320	162	768	962	12	4.0	3.6	12
18	48	41	177	418	280	148	768	920	10	3.6	3.6	16
19	48	41	162	486	243	141	750	860	9.0	5.7	3.6	21
20	44	44	141	564	300	128	732	786	8.0	6.4	3.6	26
21	44	41	128	612	350	116	678	732	7.2	5.7	3.6	38
22	41	80	116	822	394	105	612	660	6.4	5.7	5.0	44
23	41	76	105	962	430	105	548	612	5.7	4.5	6.4	48
24	41	72	95	1,050	458	100	472	564	5.7	4.5	8.0	48
25	41	68	90	1,140	472	100	418	500	5.7	4.5	10	48
26	41	68	80	1,260	458	95	394	458	6.4	4.5	10	48
27	44	68	76	1,330	444	90	370	418	6.4	4.0	10	44
28	44	68	80	1,400	418	90	340	382	6.4	4.0	10	41
29	44	64	90	1,430	------	85	382	340	6.4	4.0	10	52
30	41	64	90	1,500	------	80	406	290	6.4	3.2	10	56
31	41	------	95	1,530	------	80	------	252	------	3.6	12	------
TOTAL	1,213	1,492	3,844	17,039	19,869	5,854	11,683	24,120	1,440.7	187.0	167.0	735
MEAN	39.1	49.7	124	550	710	189	389	778	48.0	6.03	5.39	24.5
MAX	48	80	193	1,530	1,530	382	768	1,140	217	9.0	12	56
MIN	32	41	60	80	243	80	72	252	5.7	3.2	3.6	10
CFSM	.07	.08	.21	.93	1.20	.32	.66	1.31	.08	.01	.009	.04
IN.	.08	.09	.24	1.07	1.25	.37	.73	1.52	.09	.01	.01	.05
AC-FT	2,410	2,960	7,620	33,800	39,410	11,610	23,170	47,840	2,860	371	331	1,460

CAL YR 1953 TOTAL 346,847.0 MEAN 950 MAX 5,660 MIN 32 CFSM 1.60 IN 21.80 AC-FT 688,000
WTR YR 1954 TOTAL 87,643.7 MEAN 240 MAX 1,530 MIN 3.2 CFSM .41 IN 5.51 AC-FT 173,800

07364150 Bayou Bartholomew near McGhee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1954 TO SEPTEMBER 1955

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	80	29	76	110	1,090	2,330	1,330	320	60	8.0	10
2	60	68	32	72	100	1,120	2,360	1,190	330	60	7.2	12
3	60	60	32	68	95	1,120	2,360	1,070	350	56	6.4	14
4	60	68	32	72	85	1,090	2,290	962	360	52	5.7	16
5	56	68	32	116	120	1,070	2,230	840	370	60	5.0	18
6	52	72	35	185	234	1,050	2,100	750	394	72	4.5	18
7	48	72	35	243	394	984	2,010	678	394	68	5.0	16
8	48	68	35	290	532	940	1,950	596	394	60	5.0	18
9	48	60	35	330	596	880	1,960	516	382	52	5.7	18
10	44	56	35	350	644	840	1,900	444	360	48	6.4	23
11	44	52	35	360	678	786	1,770	382	330	44	7.2	26
12	48	44	38	360	732	732	1,770	330	300	38	8.0	29
13	52	41	38	350	786	696	2,230	290	270	44	9.0	32
14	52	38	38	330	822	660	2,570	252	234	44	11	32
15	48	35	38	310	860	612	2,710	217	193	44	12	32
16	48	41	38	290	900	580	2,450	185	169	41	14	29
17	44	41	38	270	900	548	2,920	162	141	48	12	29
18	41	41	38	270	900	516	3,000	134	105	41	12	29
19	38	38	38	290	880	500	3,000	116	95	38	14	29
20	35	38	38	300	880	472	2,960	105	85	32	18	29
21	35	38	38	290	880	786	2,920	100	75	26	21	29
22	32	35	41	280	962	1,160	2,920	90	68	18	23	29
23	32	35	44	261	1,030	1,350	2,640	100	85	14	23	32
24	32	32	48	243	1,050	1,450	2,500	234	76	14	23	32
25	32	32	52	225	1,050	1,560	2,360	261	64	12	23	35
26	32	32	52	209	1,050	1,720	2,160	270	60	11	21	35
27	44	32	52	193	1,030	1,860	1,980	290	60	10	18	35
28	56	32	56	177	1,050	2,010	1,800	300	60	8.0	16	35
29	80	32	64	162	------	2,100	1,630	310	60	7.2	12	35
30	90	32	68	141	------	2,200	1,480	310	60	6.4	11	35
31	90	------	76	116	------	2,260	------	310	------	7.2	10	------
TOTAL	1,541	1,413	1,300	7,229	19,350	34,762	69,360	13,114	6,249	1,135.8	377.1	791
MEAN	49.7	47.1	41.9	233	691	1,121	2,312	423	208	36.6	12.2	26.4
MAX	90	80	76	360	1,050	2,260	3,000	1,330	394	72	23	35
MIN	32	32	29	68	85	472	1,480	90	60	6.4	4.5	10
CFSM	.08	.08	.07	.39	1.17	1.90	3.91	.71	.35	.06	.02	.04
IN.	.10	.09	.08	.45	1.22	2.18	4.36	.82	.39	.07	.02	.05
AC-FT	3,060	2,800	2,580	14,340	38,400	68,950	137,600	26,010	12,390	2,250	748	1,570

CAL YR 1954 TOTAL 85,340.7 MEAN 234 MAX 1,530 MIN 3.2 CFSM .40 IN 5.36 AC-FT 169,300

WTR YR 1955 TOTAL 156,605.9 MEAN 429 MAX 3,000 MIN 4.5 CFSM .72 IN 9.84 AC-FT 310,600

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1955 TO SEPTEMBER 1956

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	29	52	38	234	2,460	500	370	76	52	1.3	3.6
2	38	29	64	35	310	2,330	486	350	68	41	1.0	9.0
3	41	29	64	35	660	2,200	472	310	60	32	.70	9.0
4	41	29	100	35	1,120	2,070	458	280	56	26	.80	12
5	41	29	95	35	1,530	1,980	444	261	52	21	.80	16
6	44	29	90	35	1,980	1,860	516	234	48	14	.70	18
7	44	26	90	35	2,330	1,740	580	243	38	12	.70	21
8	48	26	90	35	2,640	1,660	628	261	35	10	.50	21
9	52	26	95	35	2,920	1,560	678	280	29	9.0	.30	21
10	56	26	100	35	3,110	1,450	732	320	26	9.0	.30	21
11	60	26	110	35	3,260	1,350	768	340	23	8.0	.30	18
12	68	23	122	35	3,380	1,260	804	360	21	8.0	.30	16
13	76	23	128	32	3,420	1,180	840	360	21	8.0	.30	16
14	76	23	128	32	3,420	1,160	840	360	29	7.2	.30	16
15	76	23	128	32	3,420	1,140	860	360	32	6.4	.20	18
16	80	23	122	32	3,380	1,120	840	350	32	6.4	.20	21
17	80	21	116	32	3,380	1,090	822	340	32	4.5	.20	21
18	80	21	105	32	3,420	1,070	786	330	29	3.2	.20	21
19	76	26	95	38	3,420	1,030	750	320	23	2.8	.20	21
20	72	26	85	38	3,340	1,010	714	310	21	2.8	.20	21
21	68	29	80	41	3,300	962	660	290	23	2.2	.20	23
22	64	32	72	48	3,230	920	628	270	26	.90	.20	23
23	60	38	64	56	3,190	860	596	252	38	.90	.20	23
24	52	41	60	64	3,110	804	580	234	60	.80	.30	23
25	48	44	56	68	3,040	750	548	209	80	1.0	.30	23
26	44	44	52	72	2,960	714	532	201	90	1.8	.40	23
27	38	48	48	80	2,850	660	516	185	85	1.5	.60	23
28	38	48	44	95	2,710	628	472	155	80	.90	.40	21
29	35	52	41	122	2,600	596	444	128	72	1.5	.40	21
30	35	52	41	148	------	564	406	105	64	.90	.60	18
31	32	------	38	185	------	532	------	85	------	.70	.40	------
TOTAL	1,698	941	2,575	1,670	77,664	38,710	18,900	8,453	1,369	296.40	13.50	561.6
MEAN	54.8	31.4	83.1	53.9	2,678	1,249	630	273	45.6	9.56	.44	18.7
MAX	80	52	128	185	3,420	2,460	860	370	90	52	1.3	23
MIN	32	21	38	32	234	532	406	85	21	.70	.20	3.6
CFSM	.09	.05	.14	.09	4.52	2.11	1.06	.46	.08	.02	.0007	.03
IN.	.11	.06	.16	.10	4.88	2.43	1.19	.53	.09	.02	0	.04
AC-FT	3,370	1,870	5,110	3,310	154,000	76,780	37,490	16,770	2,720	588	27	1,110

CAL YR 1955 TOTAL 157,565.90 MEAN 432 MAX 3,000 MIN 4.5 CFSM .73 IN 9.90 AC-FT 312,500
WTR YR 1956 TOTAL 152,851.50 MEAN 418 MAX 3,420 MIN .20 CFSM .71 IN 9.60 AC-FT 303,200

07364150 Bayou Bartholomew near McGehee, Ark.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	38	40	193	1,000	637	445	246	168	53	541	243
2	48	35	39	185	917	632	412	286	148	57	569	204
3	46	32	38	169	814	611	378	269	129	63	591	173
4	44	32	37	177	712	570	342	231	113	66	680	148
5	42	32	36	178	624	517	306	191	100	68	831	128
6	40	31	35	190	538	463	276	155	93	76	949	113
7	39	31	33	192	460	407	248	130	82	91	1,000	102
8	38	32	32	189	399	357	225	111	74	101	1,030	95
9	43	40	30	192	351	304	205	102	70	105	1,070	90
10	40	42	30	214	297	264	185	135	65	100	1,110	85
11	38	42	32	242	258	232	170	211	61	91	1,140	79
12	42	42	35	261	228	212	160	415	58	79	1,140	72
13	48	43	38	260	207	248	151	798	54	70	1,120	65
14	50	56	40	242	191	365	142	970	49	61	1,110	59
15	50	62	40	213	176	497	134	1,050	45	52	1,100	54
16	50	62	46	184	164	556	126	1,080	41	45	1,090	50
17	49	58	47	157	154	620	119	1,080	38	39	1,080	47
18	47	54	47	135	144	697	115	1,060	36	34	1,060	44
19	48	50	46	119	146	799	111	1,020	34	30	1,040	41
20	54	48	56	109	166	879	105	949	33	28	1,000	40
21	54	44	76	103	218	912	146	868	31	25	950	39
22	54	46	96	100	328	903	313	777	29	23	882	39
23	54	46	102	102	413	866	395	680	28	21	830	39
24	54	48	100	173	442	804	367	579	29	24	774	39
25	51	48	90	271	466	744	304	491	29	47	693	41
26	48	49	88	519	511	686	242	409	28	101	609	42
27	46	48	95	732	571	630	191	354	29	152	530	41
28	46	47	113	884	617	583	152	290	34	208	455	38
29	46	43	130	988	------	551	130	243	41	273	394	34
30	44	41	150	1,050	------	524	162	212	46	358	349	32
31	41	------	181	1,050	------	487	------	190	------	488	292	------
TOTAL	1,442	1,322	2,014	9,773	11,512	17,557	6,757	15,582	1,815	3,029	26,009	2,316
MEAN	46.5	44.1	65.0	315	411	566	225	503	60.5	97.7	839	77.2
MAX	54	62	181	1,050	1,000	912	445	1,080	168	488	1,140	243
MIN	38	31	30	100	144	212	105	102	28	21	292	32
CFSM	.08	.07	.11	.53	.65	.96	.38	.85	.10	.17	1.42	.13
IN.	.09	.08	.13	.61	.72	1.10	.42	.98	.11	.19	1.63	.15
AC-FT	2,860	2,620	3,990	19,380	22,830	34,820	13,400	30,910	3,600	6,010	51,590	4,590

CAL YR 1970 TOTAL 265,104 MEAN 726 MAX 3,530 MIN 30 CFSM 1.23 IN 16.66 AC-FT 525,800
WTR YR 1971 TOTAL 99,128 MEAN 272 MAX 1,140 MIN 21 CFSM .46 IN 6.23 AC-FT 196,600

07364200 Bayou Bartholomew near Jones, La.

LOCATION.--Lat 32°59'25", long 91°39'20", in SE¼SW¼ sec.9, T.23 N., R.8 E., Morehouse Parish, on downstream side of right pier of bridge on State Highway 834, 1 mile downstream from Arkansas-Louisiana State line, and 1.6 miles northwest of Jones.

DRAINAGE AREA.--1,187 sq mi.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 79.21 ft above mean sea level (levels by Corps of Engineers). Auxiliary water-stage recorder at site 4.0 miles downstream at different datum. Oct. 1, 1959, to Dec. 6, 1966, auxiliary nonrecording gage 4.1 miles downstream at datum 1.0 ft higher. Prior to Oct. 1, 1959, auxiliary water-stage recorder 15.3 miles upstream at datum 85.17 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--14 years, 1,141 cfs (826,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,810 cfs May 24; maximum gage height, 13.49 ft May 24; minimum discharge, 92 cfs July 6 (gage height, 1.76 ft).

Period of record: Maximum daily discharge, 6,680 cfs Mar. 11-13, 1961; maximum gage height, 28.24 ft May 21, 22, 1958; minimum discharge, 32 cfs July 22, 1966 (gage height, 0.35 ft).

REMARKS.--Records fair. Small diversions above station for irrigation. In extreme floods, considerable flow bypasses station. Most of flow is into the Bayou Lafourche-Boeuf River basins via interconnecting system of bayous and drainage ditches and passes stations Bayou Lafourche near Crew Lake and Boeuf River near Girard. Other flow bypasses station and reenters the basin 5 miles downstream via Overflow Creek. Water-quality records for the current year are published in Part 2 of the Louisiana report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	140	135	402	627	1,030	1,250	557	1,320	112	235	1,030
2	108	139	131	385	661	1,040	1,250	562	1,200	101	255	980
3	103	135	128	372	709	1,050	1,220	550	1,100	96	288	920
4	100	129	128	383	764	1,040	1,180	529	999	94	320	851
5	98	123	134	400	828	1,030	1,120	502	895	93	353	772
6	98	118	137	400	888	1,000	1,070	479	804	94	390	692
7	99	113	136	420	948	990	1,000	480	710	98	437	611
8	101	111	132	450	997	980	922	484	628	98	485	531
9	110	155	128	470	1,000	970	854	489	549	101	533	461
10	112	218	125	460	1,000	960	798	501	484	110	597	399
11	117	215	122	455	1,010	940	737	528	415	118	675	346
12	163	198	119	450	990	920	673	678	360	124	740	302
13	196	186	115	430	950	900	617	808	307	126	817	268
14	219	248	112	422	910	880	561	890	262	126	882	238
15	230	280	111	408	900	870	507	976	220	126	942	216
16	234	283	113	413	800	887	457	1,100	187	128	980	202
17	227	285	112	441	710	929	423	1,220	164	130	1,030	190
18	211	279	111	471	650	967	385	1,360	149	129	1,070	179
19	196	264	110	484	600	1,050	354	1,510	141	127	1,090	171
20	186	249	155	483	570	1,100	338	1,590	135	124	1,120	165
21	171	230	446	466	550	1,140	346	1,720	144	118	1,130	157
22	157	212	509	427	560	1,160	355	1,790	150	110	1,140	150
23	151	194	608	438	600	1,180	358	1,790	143	105	1,140	146
24	149	177	659	442	700	1,200	346	1,810	130	102	1,140	144
25	148	164	667	431	800	1,210	337	1,790	119	116	1,130	146
26	146	156	654	448	900	1,210	336	1,760	110	194	1,120	147
27	146	151	607	471	1,000	1,220	356	1,720	108	248	1,120	146
28	158	149	543	510	1,020	1,210	401	1,660	142	204	1,110	142
29	153	146	482	548	-------	1,230	466	1,580	135	173	1,100	137
30	146	141	445	578	------	1,240	529	1,500	116	168	1,090	133
31	142	------	429	601	------	1,250	------	1,420	------	210	1,070	------
TOTAL	4,688	5,588	8,543	13,959	22,642	32,783	19,546	34,333	12,326	4,003	25,529	10,972
MEAN	151	186	276	450	809	1,058	652	1,108	411	129	824	366
MAX	234	285	667	601	1,020	1,250	1,250	1,810	1,320	248	1,140	1,030
MIN	98	111	110	372	550	870	336	479	108	93	235	133
AC-FT	9,300	11,080	16,950	27,690	44,910	65,030	38,770	68,100	24,450	7,940	50,640	21,760

CAL YR 1970: TOTAL 487,377 MEAN 1,335 MAX 4,930 MIN 98 AC-FT 966,700
WTR YR 1971: TOTAL 194,912 MEAN 534 MAX 1,810 MIN 93 AC-FT 386,600

07364300 Chemin-a-Haut Bayou near Beekman, La.

LOCATION.--Lat 32°58'55", long 91°48'20", in SE¼ sec.13, T.23 N., R.6 E., Morehouse Parish, near center of span on downstream side of bridge on parish road, 1.9 miles downstream from Arkansas-Louisiana State line, and 6 miles northeast of Beekman.

DRAINAGE AREA.--271 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 76.08 ft above mean sea level. Prior to Jan. 28, 1956, nonrecording gage, Jan. 29, 1956, to Oct. 1, 1966, at datum 9.50 ft higher. Auxiliary water-stage recorder 4 miles downstream. Datum of auxiliary gage is 76.08 ft above mean sea level. Prior to Sept. 30, 1968, water-stage recorder for Bayou Bartholomew near Beekman (station 07364500) used as auxiliary gage for this station.

AVERAGE DISCHARGE.--16 years, 236 cfs (171,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,260 cfs May 14 (gage height, 18.72 ft); minimum, 2.4 cfs Oct. 5 (gage height, 10.99 ft).
Period of record: Maximum discharge, 29,500 cfs Apr. 26, 1958; maximum gage height, 28.21 ft Apr. 27, 1958, present datum; no flow at times in 1956, 1963, 1965, 1966.

REMARKS.--Records fair. Some diversions above station for irrigation. Water-quality records for the current year are published in Part 2 of the Louisiana report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	62	22	217	55	558	223	26	12	14	81	19
2	2.8	55	23	242	41	372	228	27	14	18	68	18
3	3.2	39	24	197	34	214	199	38	17	25	69	20
4	3.0	25	25	153	30	135	150	40	68	47	62	35
5	2.5	18	25	124	34	91	110	29	94	92	45	33
6	4.3	13	26	129	38	67	83	20	50	96	34	28
7	5.5	11	27	157	41	55	63	22	26	70	27	26
8	6.0	9.8	30	166	42	45	48	20	28	40	26	24
9	8.1	19	30	140	40	39	38	17	27	24	79	20
10	9.0	31	30	99	38	62	30	20	29	20	288	16
11	9.5	60	30	68	36	83	26	76	77	24	313	15
12	14	73	30	54	37	111	23	284	94	20	123	13
13	28	70	29	49	37	172	21	986	56	14	54	19
14	62	113	30	45	36	317	19	1,210	29	11	30	20
15	80	167	31	40	36	572	18	1,250	20	8.5	20	20
16	86	190	33	36	39	714	17	1,120	17	6.6	18	20
17	83	169	34	34	45	681	16	861	13	7.5	15	18
18	66	147	33	32	51	583	15	584	10	7.0	14	17
19	48	126	33	30	59	632	16	335	11	6.0	15	15
20	36	94	78	28	72	739	17	144	25	6.1	15	14
21	30	62	433	28	185	793	43	56	22	5.6	16	14
22	22	42	813	28	520	715	148	27	30	5.0	17	13
23	17	29	1,010	46	716	508	209	18	58	5.0	18	15
24	24	22	975	123	802	278	148	15	53	6.5	20	34
25	27	18	905	188	685	153	83	14	31	9.6	23	93
26	20	16	727	218	576	99	45	12	19	18	22	120
27	18	16	481	208	634	74	29	11	16	46	19	122
28	29	17	262	189	656	62	22	12	15	59	20	96
29	51	19	142	159	------	81	18	12	13	86	22	54
30	58	21	85	117	------	148	22	11	12	105	22	29
31	59	------	131	79	------	194	------	10	------	102	20	------
TOTAL	915.0	1,754.8	6,587	3,423	5,615	9,347	2,127	7,307	986	1,004.4	1,615	1,000
MEAN	29.5	58.5	212	110	201	302	70.9	236	32.9	32.4	52.1	33.3
MAX	86	190	1,010	242	802	793	228	1,250	94	105	313	122
MIN	2.5	9.8	22	28	30	39	15	10	10	5.0	14	13
AC-FT	1,810	3,480	13,070	6,790	11,140	18,540	4,220	14,490	1,960	1,990	3,200	1,980

CAL YR 1970 TOTAL 78,230.74 MEAN 214 MAX 2,750 MIN .53 AC-FT 155,200
WTR YR 1971 TOTAL 41,681.20 MEAN 114 MAX 1,250 MIN 2.5 AC-FT 82,670

07364700 Bayou de Loutre near Laran, La.

LOCATION.--Lat 32°57'19", long 92°29'59", in NW¼ sec.29, T.23 N., R.1 W., Union Parish, near center of span on downstream side of bridge on parish road, 1.5 miles southwest of Laran, 1.5 miles downstream from Lion Creek, and 3.0 miles upstream from bridge on State Highway 550.

DRAINAGE AREA.--141 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 112.34 ft above mean sea level. Prior to Jan. 31, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 163 cfs (15.70 inches per year, 118,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,040 cfs Aug. 6 (gage height, 8.30 ft); minimum, 9.0 cfs Sept. 15, 16 (gage height, 1.35 ft).

Period of record: Maximum discharge, 22,600 cfs Apr. 27, 1958 (gage height, 20.29 ft, from floodmark); minimum, 1.0 cfs July 21, 25, 26, 1964; minimum gage height, 1.04 ft Aug. 16-18, 1967.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of the Louisiana report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	94	50	143	70	178	212	62	24	49	232	15
2	36	94	52	143	61	177	259	68	25	69	175	14
3	26	79	52	131	57	159	232	75	26	88	226	14
4	20	59	52	144	58	121	152	81	28	88	367	15
5	17	47	54	130	71	96	102	66	38	103	643	16
6	15	40	54	120	80	84	83	54	39	128	992	15
7	15	37	54	125	86	76	70	87	32	110	903	14
8	17	36	50	131	83	70	58	130	32	67	630	12
9	47	80	49	120	76	64	52	132	48	42	372	11
10	46	103	49	101	68	94	48	104	36	27	227	10
11	66	117	49	90	62	138	46	147	28	20	161	10
12	107	116	48	85	79	165	43	250	26	16	90	9.8
13	128	124	49	82	107	237	41	390	26	13	62	9.5
14	140	176	50	79	132	333	40	450	24	12	46	9.3
15	136	185	52	76	136	403	38	423	20	11	33	9.1
16	133	190	65	71	159	570	36	378	19	9.5	25	9.2
17	127	184	73	68	173	659	35	330	18	20	21	9.3
18	103	189	84	65	174	509	35	205	15	22	20	9.3
19	93	200	91	62	198	324	34	87	15	39	17	11
20	88	175	183	58	264	197	35	53	16	53	15	14
21	74	122	330	55	279	168	56	41	31	87	16	13
22	72	86	427	55	287	159	110	34	21	101	16	72
23	75	69	416	74	277	137	312	32	19	68	16	196
24	95	58	309	91	274	108	412	30	18	47	37	228
25	92	51	226	102	236	88	335	29	15	78	35	143
26	88	50	167	109	187	78	182	27	15	139	25	61
27	90	48	112	128	162	68	97	27	15	155	18	40
28	106	48	85	145	169	70	65	41	17	201	14	31
29	107	48	74	138	------	107	52	32	26	255	13	25
30	102	50	79	104	------	146	58	26	40	297	20	21
31	95	------	124	80	------	187	------	24	------	280	20	------
TOTAL	2,407	2,955	3,609	3,105	4,065	5,970	3,330	3,915	752	2,694.5	5,487	1,066.5
MEAN	77.6	98.5	116	100	145	193	111	126	25.1	86.9	177	35.6
MAX	140	200	427	145	287	659	412	450	48	297	992	228
MIN	15	36	48	55	57	64	34	24	15	9.5	13	9.1
CFSM	.55	.70	.82	.71	1.03	1.37	.79	.89	.18	.62	1.26	.25
IN.	.64	.78	.95	.82	1.07	1.58	.88	1.03	.20	.71	1.45	.28
AC-FT	4,770	5,860	7,160	6,160	8,060	11,840	6,610	7,770	1,490	5,340	10,880	2,120

CAL YR 1970 TOTAL 56,251.2 MEAN 154 MAX 1,920 MIN 9.2 CFSM 1.09 IN 14.84 AC-FT 111,600
WTR YR 1971 TOTAL 39,356.0 MEAN 108 MAX 992 MIN 9.1 CFSM .77 IN 10.38 AC-FT 78,060

PEAK DISCHARGE (BASE, 1,000 CFS).--Aug. 6 (1815) 1,040 cfs (8.30 ft).

07365800 Cornie Bayou near Three Creeks, Ark.

LOCATION.--Lat 33°02'21", long 92°56'15", in SW¼NW¼ sec.36, T.19 S., R.18 W., Union County, on left bank at downstream side of bridge on State Highway 15, 3.4 miles downstream from Pidgeon Roost Creek, and 6 miles southwest of town of Three Creeks.

DRAINAGE AREA.--180 sq mi.

PERIOD OF RECORD.--February 1956 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 29, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--15 years, 150 cfs (11.32 inches per year, 108,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 700 cfs Apr. 22 (gage height, 9.50 ft); minimum, 0.10 cfs Oct. 7.

Period of record: Maximum discharge, 35,800 cfs Apr. 27, 1958 (gage height, 15.50 ft), from rating curve extended above 11,000 cfs on basis of contracted-opening measurement of peak flow; no flow at times in 1956, 1964, 1968, 1969, and 1970.

Maximum stage since at least 1880, that of Apr. 27, 1958.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	12	6.8	25	30	56	139	88	6.0	.70	95	2.2
2	.60	9.5	6.5	25	30	46	78	154	5.7	.78	61	2.2
3	.50	7.5	6.4	25	25	41	58	84	5.3	.90	34	2.1
4	.40	5.9	6.4	28	30	39	47	40	4.8	1.8	39	2.2
5	.30	4.9	6.7	36	40	38	41	29	4.5	2.5	105	2.8
6	.20	4.4	7.0	46	50	37	35	24	3.9	3.7	119	3.3
7	.10	3.9	7.0	35	40	33	31	25	3.2	5.3	97	2.7
8	.30	3.4	7.1	26	35	31	28	24	2.8	5.1	72	2.4
9	2.0	7.0	7.2	22	30	29	27	25	2.4	3.6	68	2.1
10	2.0	12	6.4	20	25	28	25	35	2.1	2.6	59	1.7
11	1.5	24	5.9	19	30	28	24	80	1.8	1.9	30	1.5
12	3.0	31	5.9	19	35	36	23	250	1.7	1.9	38	1.3
13	5.0	21	6.0	18	40	262	22	400	1.6	1.9	37	1.1
14	3.5	29	6.0	18	40	465	21	250	1.5	1.6	40	.95
15	2.0	48	7.7	17	45	546	20	150	1.2	1.3	40	.83
16	1.5	85	11	17	54	632	19	100	.99	1.2	23	.80
17	1.5	52	13	16	88	461	18	70	.83	2.1	16	.88
18	1.5	25	19	16	87	167	19	45	.73	2.2	11	.84
19	4.5	16	19	15	72	91	19	35	.64	2.5	8.7	.88
20	4.1	12	28	14	179	74	20	25	.60	2.3	6.9	.89
21	4.0	10	41	13	255	63	113	20	.64	1.6	5.6	.85
22	3.5	9.3	67	12	304	52	374	15	.55	1.8	4.9	6.8
23	4.5	9.3	60	15	339	47	589	15	.50	2.2	4.4	14
24	5.0	7.8	40	20	280	43	374	10	.47	8.8	4.6	8.3
25	4.5	6.4	31	30	151	40	190	10	.38	14	6.6	4.4
26	4.5	5.9	25	120	90	41	92	9.5	.30	46	5.0	3.5
27	7.0	5.8	20	90	80	49	54	8.5	.30	91	3.3	2.8
28	13	5.5	18	65	71	58	41	8.0	.20	54	3.0	2.4
29	14	6.6	21	50	------	135	36	7.0	.30	39	3.0	2.4
30	21	7.4	23	40	------	288	42	6.5	.37	62	3.0	2.0
31	16	------	26	35	------	255	------	6.0	------	76	2.5	------
TOTAL	132.20	487.5	561.0	947	2,575	4,211	2,619	2,048.5	56.30	442.28	1,045.5	81.12
MEAN	4.26	16.3	18.1	30.5	92.0	136	87.3	66.1	1.88	14.3	33.7	2.70
MAX	21	85	67	120	339	632	589	400	6.0	91	119	14
MIN	.10	3.4	5.9	12	25	28	18	6.0	.20	.70	2.5	.80
CFSM	.02	.09	.10	.17	.51	.76	.49	.37	.01	.08	.19	.02
IN.	.03	.10	.12	.20	.53	.87	.54	.42	.01	.09	.22	.02
AC-FT	262	967	1,110	1,880	5,110	8,350	5,190	4,060	112	877	2,070	161

CAL YR 1970 TOTAL 52,326.00 MEAN 143 MAX 3,200 MIN .10 CFSM .79 IN 10.81 AC-FT 103,800
WTR YR 1971 TOTAL 15,206.40 MEAN 41.7 MAX 632 MIN .10 CFSM .23 IN 3.14 AC-FT 30,160

PEAK DISCHARGE (BASE, 1,400 CFS).--No peak above base.

07365900 Three Creeks near Three Creeks, Ark.
(Formerly published as Three Creek near Three Creeks)

LOCATION.--Lat 33°04'01", long 92°53'02", in NE¼NW¼ sec.20, T.19 S., R.17 W., Union County, near right bank on downstream side of bridge on State Highway 15, 2.2 miles southwest of town of Three Creeks, and 1.8 miles upstream from Ash Branch.

DRAINAGE AREA.--50.3 sq mi.

PERIOD OF RECORD.--February 1956 to September 1971 (discontinued as a continuous-record station; converted to a crest-stage partial-record station). Prior to October 1970, published as Three Creek near Three Creeks.

GAGE.--Water-stage recorder. Datum of gage is 155.63 ft above mean sea level. Prior to June 14, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--15 years, 49.5 cfs (13.36 inches per year, 35,860 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 510 cfs Mar. 14 (gage height, 5.05 ft); no flow July 13-16.
Period of record: Maximum discharge, 11,300 cfs Apr. 26, 1958 (gage height, 9.35 ft), from rating curve extended above 2,300 cfs on basis of contracted-opening measurement of peak flow; no flow at times in most years.
Maximum stage since at least 1880, that of Apr. 26, 1958.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	2.4	1.5	7.3	6.6	12	72	31	.72	.12	14	.45
2	.24	1.7	1.5	7.1	5.8	9.9	37	17	.86	.29	5.9	2.7
3	.21	1.5	1.6	6.8	5.3	8.9	24	10	.72	.61	5.5	3.5
4	.17	1.2	1.6	12	5.4	9.0	17	7.7	.58	.40	5.6	4.9
5	.14	.87	1.4	20	7.6	8.4	14	6.5	.53	.27	9.5	2.7
6	.12	.80	1.3	15	13	7.8	11	5.9	.45	.21	16	1.7
7	.10	.82	1.2	8.9	11	7.1	9.8	6.6	.40	.16	13	1.0
8	.18	.76	1.1	6.8	8.6	6.5	8.6	5.9	.36	.13	8.9	.68
9	1.1	5.0	1.0	5.8	7.1	6.1	7.9	5.3	.38	.10	5.8	.53
10	.95	11	1.2	5.3	6.1	6.6	7.4	7.5	.37	.08	4.0	.41
11	.76	11	1.3	5.0	5.6	6.5	7.1	34	.37	.04	7.0	.32
12	2.8	6.6	1.2	4.7	9.5	24	6.7	97	.32	.02	5.0	.28
13	2.5	5.5	1.2	4.6	23	270	6.3	246	.29	0	3.3	.24
14	3.2	22	1.0	4.4	26	417	5.7	270	.25	0	2.3	.20
15	2.0	42	2.0	4.0	18	330	5.4	96	.22	0	1.5	.15
16	1.3	20	4.4	3.6	37	102	5.3	22	.21	0	1.0	.12
17	.93	8.5	3.9	3.4	46	38	4.9	12	.20	.91	.76	.07
18	.70	5.7	4.2	3.2	24	23	4.8	8.3	.20	2.0	.56	.06
19	1.0	4.2	4.1	3.0	30	22	5.2	6.3	.20	.38	.42	.13
20	2.7	3.2	11	2.7	113	19	5.7	5.0	.15	.42	.36	.15
21	1.6	2.7	16	2.6	153	15	74	4.0	.14	.33	.32	.18
22	1.3	2.3	17	2.7	75	12	193	3.3	.25	.27	.28	2.2
23	1.4	2.0	13	3.4	60	11	345	2.7	.42	.39	.29	3.5
24	3.2	1.6	8.9	19	28	9.6	261	2.3	.32	2.6	5.5	1.4
25	3.0	1.4	6.7	117	16	8.6	78	1.9	.23	20	8.6	1.3
26	2.7	1.4	5.3	86	19	10	26	1.5	.18	18	3.4	1.1
27	3.1	1.5	4.4	24	21	11	15	1.2	.14	11	2.0	.73
28	7.3	1.5	3.9	13	16	11	11	1.1	.11	12	1.8	.54
29	7.4	1.5	5.8	10	------	71	10	.93	.08	8.5	1.1	.42
30	5.3	1.5	5.9	8.7	------	280	22	.80	.07	11	.61	.34
31	3.4	------	7.1	7.7	------	257	------	.65	------	20	.41	------
TOTAL	61.05	172.15	141.7	427.7	796.6	2,030.0	1,300.8	920.36	9.72	110.23	134.71	32.00
MEAN	1.97	5.74	4.57	13.8	28.5	65.5	43.4	29.7	.32	3.56	4.35	1.07
MAX	7.4	42	17	117	153	417	345	270	.86	20	16	4.9
MIN	.10	.76	1.0	2.6	5.3	6.1	4.8	.65	.07	0	.28	.06
CFSM	.04	.11	.09	.27	.57	1.30	.86	.59	.006	.07	.09	.02
IN.	.05	.13	.10	.32	.59	1.50	.96	.68	.007	.08	.10	.02
AC-FT	121	341	281	848	1,580	4,030	2,580	1,830	19	219	267	63

CAL YR 1970 TOTAL 18,496.31 MEAN 50.7 MAX 2,370 MIN 0 CFSM 1.01 IN 13.68 AC-FT 36,690
WTR YR 1971 TOTAL 6,137.04 MEAN 16.8 MAX 417 MIN 0 CFSM .33 IN 4.54 AC-FT 12,170

PEAK DISCHARGE (BASE, 600 CFS).--No peak above base.

07366200 Little Corney Bayou near Lillie, La.

LOCATION.--Lat 32°55'43", long 92°37'56", in NW¼ sec.1, T.22 N., R.3 W., Union Parish, near center of span on downstream side of bridge on State Highway 15, 1.4 miles east of Lillie, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--208 sq mi.

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1957, published as Little Cornie Bayou near Lillie.

GAGE.--Water-stage recorder. Datum of gage is 91.48 ft above mean sea level. Prior to Jan. 27, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 166 cfs (10.84 inches per year, 120,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,060 cfs Apr. 24 (gage height, 7.01 ft); minimum, 2.4 cfs July 16, 17 (gage height, 1.24 ft).

Period of record: Maximum discharge, 21,400 cfs Apr. 28, 1958 (gage height, 16.52 ft, from floodmark); no flow Aug. 18-20, Sept. 21 to Oct. 1, Oct. 3-5, 1956, Aug. 11-14, 1964.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of the Louisiana report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	54	36	144	57	202	324	73	9.2	19	283	7.2
2	7.1	43	36	120	51	128	391	88	8.8	19	171	7.0
3	6.4	35	36	94	47	95	469	81	8.9	17	270	7.4
4	5.8	30	36	89	47	86	376	55	9.8	22	417	7.8
5	5.3	28	35	118	64	78	164	44	12	43	508	7.5
6	4.9	28	33	150	73	73	90	39	8.8	35	532	7.0
7	4.5	28	31	137	65	67	70	117	7.2	30	496	6.2
8	5.6	28	30	97	60	60	61	277	6.4	15	333	5.3
9	14	51	30	76	54	56	56	136	5.7	8.7	112	4.6
10	37	92	30	71	51	107	52	83	5.7	6.2	58	4.1
11	40	94	30	71	48	229	51	238	6.3	5.0	100	3.9
12	52	97	31	69	58	167	48	373	5.9	4.1	183	3.8
13	84	60	31	65	97	235	44	465	5.3	3.3	201	3.7
14	93	122	31	62	121	432	41	487	4.7	3.0	72	3.5
15	67	204	31	60	119	570	39	445	4.1	2.8	39	3.5
16	47	229	41	56	154	824	37	411	3.8	2.6	31	3.5
17	32	215	64	53	190	823	36	395	3.5	7.3	22	3.5
18	23	146	69	51	196	662	34	207	3.3	51	17	4.0
19	24	61	63	48	185	503	35	59	3.1	120	14	4.6
20	47	50	161	45	279	345	35	40	3.4	188	11	5.4
21	59	46	451	44	356	244	44	32	3.4	251	10	6.4
22	51	42	569	45	371	162	64	26	3.2	94	16	151
23	40	39	491	58	383	115	430	22	3.4	24	14	427
24	47	37	295	76	365	93	1,000	19	4.6	20	11	237
25	61	35	142	75	297	81	800	17	4.7	48	17	67
26	57	34	89	114	212	75	562	15	4.6	184	39	36
27	51	34	71	175	262	75	305	14	4.5	329	27	24
28	64	35	63	190	265	81	94	13	4.0	446	16	20
29	83	36	61	113	------	132	59	12	6.1	468	12	16
30	93	36	80	73	------	258	60	11	20	437	9.0	12
31	74	------	137	63	------	308	------	5.9	------	403	7.7	------
TOTAL	1,286.9	2,089	3,334	2,702	4,527	7,366	5,871	4,303.9	184.4	3,286.0	4,048.7	1,099.9
MEAN	41.5	69.6	108	87.2	162	238	196	139	6.15	106	131	36.7
MAX	93	229	569	190	383	824	1,000	487	20	468	532	427
MIN	4.5	28	30	44	47	56	34	9.9	3.1	2.6	7.7	3.5
CFSM	.20	.33	.52	.42	.78	1.14	.94	.67	.03	.51	.63	.18
IN.	.23	.37	.60	.48	.81	1.32	1.05	.77	.03	.59	.72	.20
AC-FT	2,550	4,140	6,610	5,360	8,980	14,610	11,650	8,540	366	6,520	8,030	2,180

CAL YR 1970 TOTAL 68,981.1 MEAN 189 MAX 2,720 MIN 3.9 CFSM .91 IN 12.34 AC-FT 136,800
WTR YR 1971 TOTAL 40,098.8 MEAN 110 MAX 1,000 MIN 2.6 CFSM .53 IN 7.17 AC-FT 79,540

PEAK DISCHARGE (BASE, 1,200 CFS).--No peaks above the base.

07367700 Boeuf River near Arkansas-Louisiana State line

LOCATION.--Lat 32°58'25", long 91°26'25", in NE¼NE¼ sec.21, T.23 N., R.10 E., Morehouse-West Carroll Parish line, near left bank on downstream side of bridge on State Highway 835, 2.0 miles downstream from Arkansas-Louisiana State line, and 7.5 miles southwest of Kilbourne.

DRAINAGE AREA.--785 sq mi (see REMARKS).

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (annual maximum gage height and discharge below 200 cfs only). Gage-height record and occasional discharge measurements since May 1946 in files of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 74.11 ft above mean sea level (levels by Corps of Engineers). Prior to Dec. 31, 1957, nonrecording gage, Dec. 31, 1957, to Oct. 1, 1961, water-stage recorder on left bank 300 ft upstream at same datum. May 4, 1959, to Dec. 4, 1962, auxiliary nonrecording gage and Dec. 5, 1962, to Apr. 6, 1969, auxiliary water-stage recorder 1.7 miles downstream at datum 74.35 ft above mean sea level.

AVERAGE DISCHARGE.--11 years (1958-68), 952 cfs (689,700 acre-ft per year).

EXTREMES.--Current year: Maximum gage height, 20.91 ft May 14; minimum discharge, 21 cfs July 14 (gage height, 1.10 ft), result of pumping for irrigation.

Period of record: Maximum gage height, 22.64 ft Feb. 23, 1961; no flow June 13-19, July 15, 16, 29, 30, 1966, result of pumping for irrigation.

1957-68: Maximum discharge, 16,500 cfs Feb. 11, 1966.

Maximum stage since 1946, 22.8 ft Feb. 15, 1948.

REMARKS.--Records poor. Small diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. In extreme floods, considerable flow bypasses station. Flow reenters and passes stations Bayou Lafourche near Crew Lake, and Boeuf River near Girard. Water-quality records for the current year are published in Part 2 of the Louisiana report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	158	67						56			134
2	60	120	61						63			126
3	58	94	60		183				79			128
4	58	83	61		198			172	71			148
5	53	75	58				161	134	60			144
6	51	73	54				117	123	63	148		120
7	54	71	49			172	106		106	117		112
8	56	71	53			141	99		104	114		92
9	74		56		190	141	92	183	106	73		88
10	88		58		148		88		158	44		94
11	124		63		131		79			41		92
12			83		141		77			41		83
13			83		148		73			29		73
14			71		186		77		161	23		67
15			69	198			67		106	29		63
16				158	198		69		79	26		63
17				141	165		61		60	165		60
18	186		151	120	144		75		51	128	165	54
19			120	104			75			67	134	60
20				92			67			42	120	67
21				92						32	104	63
22				92						29	97	99
23		158							134	26	106	126
24	179	106								33		126
25	151	94					172		175			99
26	120	81					120	172	123			83
27	117	77					94	134	92			73
28		75					106	88	104		168	65
29		69					148	63	151		148	49
30		69			------			61			141	39
31		------			------		------	49	------		137	------
MAX	-	-	-	-	-	-	-	-	-	-	-	148
MIN	51	69	49	92	131	141	61	49	51	23	97	39

07369700 Bayou Macon near Kilbourne, La.

LOCATION.--Lat 32°59'35", long 91°15'45", in SW¼SE¼ sec.8, T.23 N., R.12 E., East Carroll-West Carroll Parish line, near center of channel on downstream side of bridge on State Highway 585, 0.8 mile south of Arkansas-Louisiana State line, and 3.0 mile east of Kilbourne.

DRAINAGE AREA.--504 sq mi (see REMARKS).

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (annual maximum gage height and discharge below 200 cfs only).

GAGE.--Water-stage recorder. Datum of gage is 75.41 ft above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1965, at datum 2.00 ft higher.

AVERAGE DISCHARGE.--11 years (1958-68), 508 cfs (368,000 acre-ft per year).

EXTREMES.--Current year: Maximum gage height, 21.95 ft May 14, from floodmark; minimum daily discharge, 90 cfs July 16.
Period of record: Maximum gage height, 26.35 ft May 5, 1958, present datum; no flow June 11, 1963, result of pumping for irrigation.
1957-68: Maximum discharge, 4,740 cfs May 5, 1958.

REMARKS.--Records fair. Large diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Water-quality records for the current year are published in Part 2 of the Louisiana report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	139	131									142
2	110	137	131									142
3	107	132	130									159
4	105	130	129									164
5	105	129	127									143
6	102	127	126									135
7	102	126	122									149
8	104	124	122							200		144
9	119	186	121							180		132
10	116		120							170		125
11	114		126							160		116
12		187	161							150		107
13		154	132							130		105
14			122							110		105
15			129				193			100		106
16	181						179			90		106
17	153		174				172			100		105
18			142				167		188	110		105
19		163	133				164			120		105
20		155		196			164			100		112
21		154		178						97		109
22	197	153		173						95	181	104
23	164	150							196	94	160	103
24	174	143								95	160	103
25	170	137							199		168	103
26	153	135							152		168	102
27	149	136							136		165	102
28	170	136							144		151	102
29	188	134			------				158		127	102
30	173	132			------				155		132	99
31	145	------			------		------		------		153	------
MAX	-	-	-	-			-		-	-	-	164
MIN	102	124	120	173			164		136	90	127	99

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation of each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but it is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		St. Francis River basin					
07046530	Ditch No. 42 at Hickman, Ark.	Lat 35°57'14", long 89°43'59", on west line of SW¼NW¼ sec.5, T.15 N., R.13 E., Mississippi County, at culvert on State Highway 137, 0.7 mile north of Hickman.	1.08	1963-71	7- 5-71	10.88	66
07047200	Ditch No. 45 near Lepanto, Ark.	Lat 35°36'46", long 90°22'30", in SW¼SW¼ sec.32, T.12 N., R.7 E., Poinsett County, at culvert on State Highway 14, 2.5 miles west of Lepanto.	2.16	1962-71	2-21-71	8.06	154
07047820	Murray Creek near Jonesboro, Ark.	Lat 35°51'52", long 90°38'26", in SW¼SW¼ sec.2, T.14 N., R.4 E., Craighead County, at culvert on State Highway 1, 4 miles northeast of Jonesboro.	1.38	1960-71	10- 8-70	8.21	260
07047880	Pope Creek tributary at Birdeye, Ark.	Lat 35°22'35", long 90°42'02", in NE¼SE¼ sec.30, T.9 N., R.4 E., Cross County, at culvert on State Highway 42, 0.9 mile west of Birdeye.	.08	1963-71	4-20-71	4.06	46
07047924	Crooked Bayou tributary at State Highway 149, at Hughes, Ark.	Lat 34°57'07", long 90°28'00", in SW¼SE¼ sec.16, T.4 N., R.6 E., St. Francis County, at culvert on State Highway 149, 0.4 mile northeast of junction of State Highways 38 and 149, at Hughes.	.48	1963-71	a12-29-69 5-25-71	8.43 7.88	91 44
		White River basin					
07047975	Dog Branch at St. Paul, Ark.	Lat 35°49'35", long 93°45'50", in NW¼NW¼ sec.4, T.13 N., R.26 W., Madison County, at culvert on State Highway 23, at St. Paul.	a1.16	1961-71	5-19-61 1962 1963 4- 5-64 7- 3-65 2- 9-66 9-15-67 10-30-67 1-29-69 9-23-70 5-23-71	8.50 (b) (b) 7.40 7.11 7.59 7.04 8.19 7.57 8.38 8.67	a370 c<240 c<240 a130 a90 a165 a82 a300 a160 a345 410
07047990	West Fork White River tributary near Greenland, Ark.	Lat 35°58'20", long 94°09'55", in SE¼ sec.16, T.15 N., R.30 W., Washington County, at culvert on U.S. Highway 71, 1.5 miles south of Greenland.	a.62	1960-71	10-26-70	5.86	210
07048900	Whitener Branch tributary near Spring Valley, Ark.	Lat 36°10'24", long 93°54'59", in SE¼NW¼ sec.1, T.17 N., R.28 W., Washington County, at culvert on State Highway 68, 1 mile east of Spring Valley.	a1.07	1960-71	5-23-71	6.13	145
07048940	War Eagle Creek near Witter, Ark.	Lat 35°54'12", long 93°42'06", in SE¼SE¼ sec.2, T.14 N., R.26 W., Madison County, at bridge on State Highway 23, 2.8 miles south of Witter.	a22.1	1963-71	5-23-71	15.22	6,580
07049000	War Eagle Creek near Hindsville, Ark.	Lat 36°12'02", long 93°51'20", in SE¼NE¼ sec.28, T.18 N., R.27 W., Madison County, on left bank about 800 ft above bridge on State Highway 45, 3.9 miles north of Hindsville.	262	1953-70†, 1971	10- 9-70	14.58	9,210
07050200	Maxwell Creek at Kingston, Ark.	Lat 36°03'06", long 93°31'03", in SW¼NW¼ sec.15, T.16 N., R.24 W., Madison County, at bridge on State Highway 21, 0.1 mile north of Kingston.	a2.78	1961, 1963-71	5-23-71	6.45	720
07050400	Osage Creek tributary at Berryville, Ark.	Lat 36°22'06", long 93°33'33", in SE¼NW¼ sec.29, T.20 N., R.24 W., Carroll County, at culvert on College Street, 0.5 mile east of State Highway 21 in Berryville.	a.73	1961-71	10-26-70	6.48	290
07054400	Charley Creek near Omaha, Ark.	Lat 36°27'24", long 93°04'46", in NW¼SW¼ sec.23, T.21 N., R.20 W., Boone County, at culvert on State Highway 14, 6.1 miles east of Omaha.	3.41	1962-71	1962 10-26-70	(b) 8.55	c<130 660
07054450	East Sugarloaf Creek tributary near Lead Hill, Ark.	Lat 36°22'28", long 92°49'52", in NW¼NW¼ sec.19, T.20 N., R.17 W., Marion County, at culvert on State Highway 14, 5.0 miles southeast of Lead Hill.	a.87	1962-71	1-13-71	6.79	98
07055550	Crooked Creek tributary near Dogpatch, Ark.	Lat 36°09'01", long 93°07'23", in SW¼SW¼ sec.4, T.17 N., R.20 W., Boone County, at culvert on State Highway 7, 2.9 miles north of Dogpatch. Prior to 1967 published as Crooked Creek tributary near Marble Falls.	a4.13	1961-71	1962 5-23-71	(b) d5.06	c<270 330

a Revised.
b Peak did not reach bottom of gage.
c Not previously published
d From digital recorder.
< Less than.
† Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		White River basin--continued					
07055650	Smith Creek near Boxley, Ark.	Lat 35°56'50", long 93°23'52", in SW¼SW¼ sec.23, T.15 N., R.23 W., Newton County, at bridge on State Highway 21, 1.7 miles south of Boxley.	a8.35	1963-71	10-26-70	7.76	975
07055800	Dry Branch near Vendor, Ark.	Lat 35°56'00", long 93°06'46", in SW¼SW¼ sec.21, T.15 N., R.20 W., Newton County, at bridge on county road, 2.4 miles southwest of Vendor.	6.30	1962-71	10-26-70	9.95	720
07057300	Dodd Creek tributary near Mountain Home, Ark.	Lat 36°19'05", long 92°24'01", in NE¼SW¼ sec.17, T.19 N., R.13 W., Baxter County, at culvert on U.S. Highway 62, 1.5 miles southeast of Mountain Home. Prior to 1966 published as Big Creek tributary near Mountain Home.	.76	1961-71	1962 1-13-71	(b) 8.77	c<87 95
07060600	Band Mill Creek near Brockwell, Ark.	Lat 36°08'02", long 91°58'48", in SE¼SE¼ sec.7, T.17 N., R.9 W., Izard County, at culvert on State Highway 56, 3.1 miles west of Brockwell.	a1.25	1961-71	10-26-70	5.17	208
07060670	Hughes Creek near Mountain View, Ark.	Lat 35°51'46", long 92°08'47", in NE¼NE¼ sec.10, T.14 N., R.11 W., Stone County, at bridge on State Highway 66, 1.7 miles west of Mountain View. Prior to 1969 published as Lick Fork tributary near Mountain View.	a3.19	1961-71	a9-18-70 10-26-70	a8.37 7.86	a1,270 1,100
07060830	Wolf Bayou near Drasco, Ark.	Lat 35°39'33", long 91°55'18", in NW¼SE¼ sec.23, T.12 N., R.9 W., Cleburne County, at culvert on State Highway 25, 2.4 miles northeast of Drasco.	a.75	1963-71	10-26-70	4.24	19
07061100	Gibbs Creek at Sulphur Rock, Ark.	Lat 35°45'32", long 91°30'52", in SE¼SW¼ sec.15, T.13 N., R.5 W., Independence County, at culvert on State Highway 69, 0.9 mile west of Sulphur Rock.	a3.90	1962-71	8-11-71	d6.84	490
07068870	Fourche River tributary at Middlebrook, Ark.	Lat 36°27'46", long 90°55'26", in SW¼SW¼ sec.13, T.21 N., R.1 E., Randolph County, at culvert on State Highway 115, 0.3 mile north of Middlebrook. Prior to 1969 published as Fourche Creek tributary at Middlebrook.	a.19	1961-71	2-12-71	6.19	86
07068890	Fourche River above Pocahontas, Ark.	Lat 36°20'21", long 90°56'33", in NE¼NW¼ sec.35, T.20 N., R.1 E., Randolph County, on right bank at upstream side of bridge on State Highway 115, 5.6 miles north of Pocahontas.	228	1965-70♦, 1971	2-22-71	18.62	3,970
07069000	Black River at Pocahontas, Ark.	Lat 36°15'14", long 90°58'12", in SW¼SW¼ sec.27, T.19 N., R.1 E., Randolph County, at bridge on U.S. Highway 67 at Pocahontas.	4,843	1937-70♦, 1971	1-15-71	14.61	11,300
07069250	Brush Creek near Mammoth Spring, Ark.	Lat 36°25'36", long 91°29'27", in SE¼SE¼ sec.34, T.21 N., R.5 W., Fulton County, at culvert on U.S. Highway 63, 5.5 miles southeast of Mammoth Spring. Prior to 1967 published as Spring River tributary near Mammoth Spring.	a.48	1961-71	8-22-71	8.14	160
07069290	Miller Creek near Salem, Ark.	Lat 36°20'13", long 91°46'32", in SE¼NW¼ sec.6, T.19 N., R.7 W., Fulton County, at culvert on U.S. Highway 62, 3.6 miles southeast of Salem.	a2.11	1961, a1963-71	1-13-71	4.88	295
07072200	Bubble Creek near Pocahontas, Ark.	Lat 36°15'32", long 91°02'02", in SE¼SW¼ sec.25, T.19 N., R.1 W., Randolph County, at culvert on U.S. Highway 62, 3.4 miles west of Pocahontas. Prior to 1966 published as Eleven Point River tributary near Pocahontas.	a1.33	1961-71	2-12-71	8.40	440
07074200	Dry Branch tributary near Sidney, Ark.	Lat 36°00'12", long 91°35'06", in NW¼SW¼ sec.25, T.16 N., R.6 W., Sharp County, at culvert on U.S. Highway 167, 4.2 miles east of Sidney. Prior to 1963 published as Big Creek tributary near Sidney.	a1.22	1961-71	1962 8-22-71	(b) 10.25	c<100 695
07074250	Reeds Creek near Strawberry, Ark.	Lat 35°58'58", long 91°20'12", in SW¼SW¼ sec.32, T.16 N., R.3 W., Lawrence County, at bridge on State Highway 117, 1.4 miles northwest of Strawberry.	34.9	1963-71	10- 8-70	13.01	2,300
07074550	Village Creek near O'Kean, Ark.	Lat 36°10'45", long 90°50'29", on south line SW¼SW¼ sec.23, T.18 N., R.2 E., Randolph County, at bridge on State Highway 90, 1.6 miles northwest of O'Kean. Prior to 1965 published as Village Creek Main Ditch near O'Kean.	a6.24	1961-71	2-12-71	7.29	130
07074840	Cypress Creek tributary near Augusta, Ark.	Lat 35°20'37", long 91°20'38", in SE¼SE¼ sec.6, T.8 N., R.3 W., Woodruff County, at culvert on State Highway 33, 4.4 miles north of Augusta.	a5.54	1962-71	12-22-70	4.06	265
07074900	Trace Creek tributary near Marshall, Ark.	Lat 35°52'14", long 92°36'08", in NE¼SW¼ sec.8, T.14 N., R.15 W., Searcy County, at culvert on U.S. Highway 65, 3.2 miles south of Marshall.	a.26	1961-71	1962 1- 5-71	(b) 6.89	c<38 20

a Revised.
b Peak did not reach bottom of gage.
c Not previously published.
d From digital recorder.
< Less than.
♦ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		White River basin--continued					
07074950	Tick Creek near Leslie, Ark.	Lat 35°51'30", long 92°26'24", in SW¼NE¼ sec.14, T.14 N., R.14 W., Searcy County, at culvert on State Highway 66, 1.5 miles northeast of Omley and 7 miles east of Leslie.	a.60	1961-71	1- 3-71	5.99	50
07075600	Choctaw Creek tributary near Choctaw, Ark.	Lat 35°31'30", long 92°25'03", in SE¼SW¼ sec.6, T.10 N., R.13 W., Van Buren County, at culvert on State Highway 330, 1.4 miles east of Choctaw.	a1.56	1964-71	10-26-70	9.35	818
07075800	Peter Creek tributary near Ida, Ark.	Lat 35°32'36", long 91°57'25", in N½ sec.33, T.11 N., R.9 W., Cleburne County, at culvert on State Highway 25, 3.5 miles southwest of Ida.	a.11	1964-71	7-23-71	6.68	48
07076630	Key Branch near Searcy, Ark.	Lat 35°14'47", long 91°47'01", in NW¼SW¼ sec.8, T.7 N., R.7 W., White County, at culvert on State Highway 36, 2.8 miles west of Searcy. Prior to 1964 published as Little Red River tributary near Searcy.	a.66	1961-71	4-23-71	5.65	173
07076820	Gum Springs Creek near Higginson, Ark.	Lat 35°12'04", long 91°43'56", on east line NE¼ SE¼ sec.27, T.7 N., R.7 W., White County, at bridge on U.S. Highway 67, 1.2 miles northeast of Higginson. Prior to 1964 published as Glade Creek near Higginson.	a5.00	1961-71	8-22-71	e9.27	370
07076870	Pigeon Roost Creek at Butlerville, Ark.	Lat 34°58'36", long 91°50'38", in NW¼NE¼ sec.15, T.4 N., R.8 W., Lonoke County, at bridge on State Highway 38, 0.6 mile west of Butlerville.	23.0	1961-71	12-22-70	10.13	1,300
07077100	Big Creek near Boydsville, Ark.	Lat 36°22'12", long 90°19'50", in SE¼NW¼ sec.16, T.20 N., R.7 E., Clay County, at bridge on county road, 0.5 mile south of Crockett and 4.0 miles northeast of Boydsville.	a12.8	1962-71	1- 3-71	10.54	910
07077200	Big Creek tributary near Boydsville, Ark.	Lat 36°22'32", long 90°19'56", in SE¼NW¼ sec.9, T.20 N., R.7 E., Clay County, at culvert on county road, 0.1 mile west of Crockett and 4.1 miles northeast of Boydsville.	a1.58	1962-71	2-12-71	6.59	268
07077340	Sugar Creek tributary near Walcott, Ark.	Lat 36°04'26", long 90°36'55", in NW¼SW¼ sec.25, T.17 N., R.4 E., Greene County, at culvert on State Highway 25, 3.2 miles east of junction of State Highways 25 and 141, and 3.9 miles northeast of Walcott.	a.60	1963-71	2-21-71	7.80	312
07077430	Willow Ditch near Egypt, Ark.	Lat 35°56'29", long 90°56'33", in SW¼SW¼ sec.12, T.15 N., R.1 E., Lawrence County, at culvert on State Highway 91, 5.1 miles north of Egypt.	a.25	1963-71	5-13-71	5.42	32
07077680	Threemile Creek near Amagon, Ark.	Lat 35°33'42", long 91°01'25", in NW¼NE¼ sec.30, T.11 N., R.1 E., Poinsett County, at bridge on State Highway 14, 4.8 miles east of Amagon.	a7.93	1961-71	7-24-71	4.48	375
07077860	Boat Gunnels Slash tributary near Holly Grove, Ark.	Lat 34°36'18", long 91°10'12", in SE¼SW¼ sec.13, T.1 S., R.2 W., Monroe County, at bridge on State Highway 86, 1.8 miles northeast of Holly Grove.	a6.78	1962-71	12-21-70	7.37	135
07077900	Big Creek at Goodwin, Ark.	Lat 34°56'22", long 91°00'55", in NE¼NE¼ sec.29, T.4 N., R.1 E., St. Francis County, at bridge on U.S. Highway 70, 0.3 mile east of Goodwin.	a31.1	1961-71	7-27-71	8.75	290
07077940	Spring Creek near Aubrey, Ark.	Lat 34°41'16", long 90°53'45", in SW¼NE¼ sec.16, T.1 N., R.2 E., Lee County, at bridge on State Highway 121, 2.1 miles south of Aubrey.	a38.0	1962-71	2-12-71	11.86	775
07078170	Little LaGrue Bayou tributary near DeWitt, Ark.	Lat 34°19'58", long 91°24'06", on east line NE¼NE¼ sec.26, T.4 S., R. 4 W., Arkansas County, at bridge on county road, 4.5 miles northwest of DeWitt.	a1.31	1961-71	12-20-70	7.25	92
07078210	Darlston Creek tributary at Ethel, Ark.	Lat 34°18'02", long 91°09'45", in NW¼NE¼ sec.31, T.4 S., R.1 W., Arkansas County, at culvert on State Highway 17, 1.0 mile north of Ethel.	.20	1963-71	7-24-71	4.40	43
		Arkansas River basin					
07188900	Butler Creek tributary near Gravette, Ark.	Lat 36°26'51", long 94°26'36", in SW¼NE¼ sec.36, T.21 N., R.33 W., Benton County, at culvert on State Highway 59, 2.0 miles north of Gravette.	.96	1961-71	10-26-70	4.43	13
07194890	Osage Creek at Cave Springs, Ark.	Lat 36°15'56", long 94°14'15", in SW¼NW¼ sec.1, T.18 N., R.31 W., Benton County, at bridge on county road, 0.4 mile west of Cave Springs.	40.4	1963-71	1964 10-26-70	(b) 7.41	c<2,000 2,550

a Revised.
b Peak did not reach bottom of gage.
c Not previously published.
e Downstream gage.
<Less than.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Arkansas River basin--continued					
07195200	Brush Creek tributary near Tontitown, Ark.	Lat 36°10'38", long 94°16'40", in NW¼SW¼ sec.3, T.17 N., R.31 W., Washington County, at culvert on State Highway 68, 2.2 miles west of Tontitown.	.37	1959-71	10-26-70	8.63	108
07195450	Ballard Creek at Summers, Ark.	Lat 35°58'42", long 94°29'56", in SW¼SW¼ sec.16, T.15 N., R.33 W., Washington County, at bridge on U.S. Highway 62, 0.4 mile west of Summers.	14.6	1963-71	10-26-70	9.70	4,600
07249300	James Fork near Midland, Ark.	Lat 35°14'27", long 94°20'20", in NW¼NW¼ sec.32, T.5 N., R.31 W., Sebastian County, at bridge on State Highway 252, 1.6 miles southeast of Midland.	44.0	1963-71	10-23-70	4.32	920
07249500	Cove Creek near Lee Creek, Ark.	Lat 35°43'20", long 94°24'28", in SW¼NW¼ sec.16, T.12 N., R.32 W., Crawford County, at bridge on U.S. Forest Service road, 4.5 miles northwest of Lee Creek.	35.3	1951-70ϕ, 1971	10-26-70	10.00	7,560
07249650	Mountain Fork near Evansville, Ark. (formerly published as Mountain Fork Creek near Evansville, Ark.)	Lat 35°42'23", long 94°28'37", in NW¼SE¼ sec.22, T.12 N., R.33 W., Crawford County, at bridge on State Highway 59, 6.2 miles south of Evansville.	7.80	1962-71	10-26-70	11.41	5,120
07249950	Webber Creek tributary near Cedarville, Ark.	Lat 35°36'00", long 94°22'49", in SE¼SE¼ sec.27, T.11 N., R.32 W., Crawford County, at culvert on State Highway 59, 2.3 miles north of Cedarville.	.34	1962-71	10-26-70	7.71	274
07251500	Frog Bayou at Rudy, Ark.	Lat 35°31'32", long 94°16'18", in SW¼ sec.23, T.10 N., R.31 W., Crawford County, at bridge on State Highway 282 at Rudy.	216	1951-70ϕ, 1971	10-26-70	15.26	19,300
07252200	North Fork White Oak Creek tributary near Watalula, Ark.	Lat 35°35'43", long 93°50'50", in SE¼NE¼ sec.27, T.11 N., R.27 W., Franklin County, at culvert on State Highway 23, 2.2 miles northwest of Watalula.	.27	1961-71	5-24-71	6.36	135
07256500	Spadra Creek at Clarksville, Ark.	Lat 35°28'06", long 93°27'46", in NE¼ sec.5, T.9 N., R.23 W., Johnson County, on right bank at Clarksville, 0.2 mile downstream from bridge on U.S. Highway 64.	61.1	1953-70ϕ, 1971	6- 2-71	9.01	4,280
07257060	Mikes Creek tributary near Ozone, Ark.	Lat 35°37'25", long 93°26'02", in NE¼SE¼ sec.9, T.11 N., R.23 W., Johnson County, at culvert on State Highway 21, 1.4 miles southeast of Ozone.	.19	1964-71	5-23-71	3.07	27
07257100	Minnow Creek tributary near Hagarville, Ark.	Lat 35°30'10", long 93°21'56", in SE¼SE¼ sec.19, T.10 N., R.22 W., Johnson County, at culvert on State Highway 123, 2.6 miles southwest of Hagarville.	.20	1962-71	1962 5-23-71	(b) 4.21	c<15 27
07257500	Illinois Bayou near Scottsville, Ark.	Lat 35°27'58", long 93°02'28", in SE¼SW¼ sec.32, T.10 N., R.19 W., Pope County, at bridge on county road, 1.3 miles north of Scottsville.	241	1948-70ϕ, 1971	10-27-70	11.15	6,080
07257700	McCoy Creek near Dover, Ark.	Lat 35°25'04", long 93°05'09", in SE¼NE¼ sec.23, T.9 N., R.20 W., Pope County, at bridge on State Highway 27, 2.0 miles northeast of Dover.	7.05	1961-71	1963 10-13-70	(b) 4.73	c<170 220
07258200	Pack Saddle Creek tributary near Waldron, Ark.	Lat 34°58'18", long 94°05'42", in SE¼SE¼ sec.29, T.4 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 5.2 miles north of Waldron.	.90	1961-71	1- 3-71	3.30	52
07260630	Jake Creek near Chickalah, Ark.	Lat 35°07'45", long 93°20'21", in NW¼SE¼ sec.33, T.6 N., R.22 W., Yell County, at culvert on State Highway 27, 0.6 mile northeast of Ranger and 4.2 miles southwest of Chickalah.	1.60	1961-71	6- 1-71	6.73	355
07260679	East Fork Point Remove Creek tributary near Saint Vincent, Ark.	Lat 35°16'10", long 92°43'59", in NE¼NE¼ sec.7, T.7 N., R.16 W., Conway County, at culvert on State Highway 213, 2.2 miles south of Saint Vincent.	.09	1967-71	4-23-71	6.20	35
07261050	Pine Mountain Creek tributary near Damascus, Ark.	Lat 35°23'19", long 92°23'17", in NW¼SW¼ sec.28, T.9 N., R.13 W., Van Buren County, at culvert on State Highway 124, just east of junction with U.S. Highway 65, and 2.0 miles northeast of Damascus.	.29	1961-71	10-27-70	7.23	60
07261300	Ten-a-hill Creek near Boles, Ark.	Lat 34°43'49", long 94°04'43", in SW¼NW¼ sec.22, T.1 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 0.3 mile southeast of "Y" City and 3.6 miles southeast of Boles.	2.33	1960-71	10-26-70	7.85	700
07261800	Brogan Creek near Rover, Ark.	Lat 34°54'28", long 93°24'06", in NW¼SE¼ sec.13, T.3 N., R.23 W., Yell County, at culvert on State Highway 27, 2.7 miles south of Rover. Prior to 1966 published as Fourche LaFave River tributary near Rover.	1.04	1963-71	6-26-71	5.67	285

b Peak did not reach bottom of gage.
c Not previously published.
< Less than.
ϕ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Arkansas River basin--continued					
07263100	Fourche LaFave River tributary near Perryville, Ark.	Lat 35°01'14", long 92°46'06", in NW¼SW¼ sec.1, T.4 N., R.17 W., Perry County, at culvert on State Highway 60, 2.2 miles northeast of Perryville.	1.47	1962-71	1962 1963 8- 3-71	(b) (b) 6.45	c<185 c<185 90
07263400	Little Maumelle River at Ferndale, Ark.	Lat 34°46'48", long 92°33'15", in NW¼SE¼ sec.25, T.2 N., R.15 W., Pulaski County, at bridge on county road, 0.2 mile northeast of Ferndale.	15.0	1963-71	10-26-70	12.66	5,000
07263860	Mile Branch near Tomberlin, Ark.	Lat 34°29'08", long 91°51'13", in NW¼NE¼ sec.3, T.3 S., R.8 W., Jefferson County, at bridge on county road, 2.3 miles southeast of Tomberlin. Prior to 1964 published as Main Ditch Lateral No. 9 near Tomberlin.	2.75	1963-71	1-30-69 3- 3-70 8- 3-71	10.49 10.77 10.72	a205 a245 235
07263910	Cypress Branch near Jacksonville, Ark.	Lat 34°54'28", long 92°10'55", in SE¼NE¼ sec.9, T.3 N., R.11 W., Pulaski County, at culvert on State Highway 107, 5.0 miles northwest of Jacksonville.	2.38	1961-71	8- 5-71	10.33	505
07264130	White Oak Branch near Lonoke, Ark.	Lat 34°46'20", long 91°50'34", on west line SW¼ NW¼ sec.26, T.2 N., R.8 W., Lonoke County, at bridge on county road, 3.3 miles east of Lonoke.	8.41	1961-71	5-12-71	7.59	285
		Red River basin					
07338700	Twomile Creek near Hatfield, Ark.	Lat 34°30'52", long 94°20'14", in NW¼NW¼ sec.8, T.3 S., R.31 W., Polk County, at bridge on U.S. Highway 71, 3.1 miles northeast of Hatfield.	16.1	1963-71	10-26-70	9.35	2,450
07339800	Pepper Creek near DeQueen, Ark.	Lat 34°02'44", long 94°18'13", on north line NW¼NE¼ sec.28, T.8 S., R.31 W., Sevier County, at bridge on U.S. Highway 71, 1.5 miles east of Junction of U.S. Highways 70 and 71, and 2.3 miles east of DeQueen.	6.43	1961-71	7-24-71	f4.02	310
07340200	West Flat Creek near Foreman, Ark.	Lat 33°45'13", long 94°23'28", in NW¼SW¼ sec.2, T.12 S., R.32 W., Little River County, at bridge on State Highway 41, 2.3 miles north of Foreman.	10.6	1962-71	3-12-71	10.98	1,100
07340530	Mill Slough tributary near Lockesburg, Ark.	Lat 33°58'04", long 94°11'25", on south line SW¼NW¼ sec.22, T.9 S., R.30 W., Sevier County, at culvert on State Highway 24, 1.3 miles west of Lockesburg.	.64	1963-71	5-10-71	3.50	37
07341100	Rock Creek near Dierks, Ark.	Lat 34°06'46", long 94°02'25", in SW¼NE¼ sec.36, T.7 S., R.29 W., Howard County, at bridge on U.S. Highway 70, 1.4 miles southwest of Dierks.	9.48	1961, 1963-71	7-24-71	3.35	260
07341700	Caney Creek near Hope, Ark.	Lat 33°41'34", long 93°38'12", in SE¼NE¼ sec.24, T.12 S., R.25 W., Hempstead County, at bridge on State Highway 4, 3.1 miles northwest of Hope.	12.9	1963-71	7-24-71	12.02	3,570
07344320	Mill Creek tributary near Fouke, Ark.	Lat 33°17'53", long 93°54'58", in NW¼NE¼ sec.8, T.17 S., R.27 W., Miller County, at culvert on U.S. Highway 71, 3.0 miles northwest of Fouke.	1.43	1961-71	7-24-71	5.70	40
07346800	East Fork Kelly Bayou tributary at Kiblah, Ark.	Lat 33°02'57", long 93°53'44", in NE¼NW¼ sec.3, T.20 S., R.27 W., Miller County, at culvert on U.S. Highway 71, 0.1 mile south of Kiblah.	.13	1961-71	10-26-70	6.70	22
07348630	Barlow Branch tributary near McNeil, Ark.	Lat 33°18'43", long 93°13'52", in NW¼SE¼ sec.25, T.16 S., R.21 W., Columbia County, at culvert on U.S. Highway 79, 2.5 miles south of McNeil.	.05	1961-71	11- 8-70	5.40	11
07349430	Bodcau Creek at Stamps, Ark.	Lat 33°22'00", long 93°31'20", in NW¼ sec.7, T.16 S., R.23 W., Lafayette County, at bridge on U.S. Highway 82, 1 mile west of Stamps.	234	1959-70†, 1971	3-18-71	6.42	607
07355800	Lewis Creek tributary near Mena, Ark.	Lat 34°37'15", long 94°12'15", in NE¼SW¼ sec.33, T.1 S., R.30 W., Polk County, at culvert on U.S. Highway 71, 3.1 miles northeast of Mena.	.64	1961-71	11-22-61 6-16-63 10-26-70	f2.5 f2.2 3.94	a66 a38 235
07355900	Big Fork tributary at Big Fork, Ark.	Lat 34°28'23", long 93°57'38", in SE¼NW¼ sec.23, T.3 S., R.28 W., Polk County, at culvert on State Highway 8, 0.9 mile southeast of Big Fork.	.16	1964-71	10-26-70	7.02	33
07356500	South Fork Ouachita River at Mount Ida, Ark.	Lat 34°33'36", long 93°38'16", in NE¼NE¼ sec.23, T.2 S., R.25 W., Montgomery County, at bridge on U.S. Highway 270 at Mount Ida.	64	1950-70†, 1971	10-27-70	11.00	8,410
07356700	Barnes Branch near Mount Ida, Ark.	Lat 34°33'57", long 93°37'03", in SE¼SE¼ sec.13, T.2 S., R.25 W., Montgomery County, at culvert on State Highway 27, 1.1 miles northeast of Mount Ida	1.85	1961-71	10-26-70	11.14	475
07357700	Glazypeau Creek at Mountain Valley, Ark.	Lat 34°37'30", long 93°03'09", in SE¼SE¼ sec.20, T.1 S., R.19 W., Garland County, at bridge on State Highway 7, 0.5 mile southeast of Mountain Valley.	g4.3	1961-71	10-27-70	11.13	920

a Revised.
b Peak did not reach bottom of gage.
c Not previously published.
f From floodmark.
g Approximately.
<Less than.
† Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Red River basin--continued					
07359520	Ouachita River tributary near Malvern, Ark.	Lat 34°22'01", long 92°52'01", in SW¼NE¼ sec.19, T.4 S., R.17 W., Hot Spring County, at culvert on State Highway 84, 3.2 miles west of Malvern.	g3.0	1962-71	8- 4-71	4.42	48
07359750	Little Sugarloaf Creek near Bonnerdale, Ark.	Lat 34°21'40", long 93°27'30", in NW¼SW¼ sec.27, T.4 S., R.23 W., Montgomery County, at bridge on U.S. Highway 70, 4.7 miles southwest of Bonnerdale.	2.34	1962-71	2-12-71	6.15	112
07360150	Pearson Creek tributary near Dalark, Ark.	Lat 34°01'59", long 92°52'05", in SE¼NW¼ sec.17, T.8 S., R.17 W., Dallas County, at culvert on State Highway 8, 1.1 miles east of Dalark. Prior to 1965 published as Casa Massa Creek tributary near Dalark.	.40	1961-71	7-24-71	4.74	92
07361020	Prairie Creek tributary near Kirby, Ark.	Lat 34°09'10", long 93°37'53", in NW¼SE¼ sec.11, T.7 S., R.25 W., Pike County, at culvert on State Highway 27, 6.6 miles south of Kirby.	.16	1963-71	8- 2-71	4.06	70
07361[illegible]80	South Fork Ozan Creek near Ozan, Ark.	Lat 33°49'15", long 93°42'28", in SE¼SW¼ sec.5, T.11 S., R.25 W., Hempstead County, at bridge on State Highway 4, 2.0 miles south of Ozan.	17.6	1963-71	7-24-71	23.34	4,800
07361680	Little Caney Creek near Rosston, Ark.	Lat 33°36'18", long 93°17'30", in SW¼SE¼ sec.17, T.13 S., R.21 W., Nevada County, at culvert on State Highway 19, 1.0 mile north of junction of State Highways 4 and 19, and 1.5 miles northwest of Rosston.	g1.5	1961-71	7-24-71	9.51	315
07361780	Bradshaw Creek near Hollywood, Ark. (Formerly published as Old Bradshaw Creek near Hollywood, Ark.)	Lat 34°06'02", long 92°12'24", in NE¼SE¼ sec.26, T.7 S., R.21 W., Clark County, at bridge on State Highway 26, 2.6 miles east of Hollywood.	3.46	1962-71	7-24-71	8.56	200
07362050	Ross Creek near Camden, Ark.	Lat 33°32'38", long 92°53'18", in SE¼NE¼ sec.6, T.14 S., R.17 W., Ouachita County, at bridge on U.S. Highway 79, 4.2 miles southwest of Camden.	a10.4	1961-71	7-24-71	9.31	370
07362330	Dunn Creek near Hampton, Ark.	Lat 33°32'03", long 92°30'55", in SE¼NW¼ sec.2, T.14 S., R.14 W., Calhoun County, at bridge on State Highway 4, 2.8 miles west of Hampton.	g7.0	1962-71	7-24-71	8.83	1,900
07362450	Cooks Creek near Fordyce, Ark.	Lat 33°50'33", long 92°28'09", in NW¼NE¼ sec.19, T.10 S., R.14 W., Dallas County, at bridge on State Highway 8, 3.9 miles northwest of Fordyce.	g5.2	1962-71	7-24-71	10.57	990
07363050	Holly Creek tributary near Benton, Ark.	Lat 34°32'04", long 92°33'12", in SW¼NW¼ sec.19, T.2 S., R.14 W., Saline County, at culvert on State Highway 35, 2.8 miles southeast of Benton.	1.46	1962-71	8- 3-71	4.19	90
07363330	West Fork Big Creek at Sheridan, Ark.	Lat 34°19'13", long 92°23'43", in NW¼NE¼ sec.3, T.5 S., R.13 W., Grant County, at bridge on U.S. Highway 167, 0.9 mile north of junction of U.S. Highways 167 and 270 in Sheridan.	4.86	1960, 1963-71	8- 3-71	10.36	57
07363430	East Fork Derrieusseaux Creek near Pine Bluff, Ark.	Lat 34°17'57", long 92°11'37", in NW¼NW¼ sec.10, T.5 S., R.11 W., Jefferson County, at culvert on U.S. Highway 270, 12 miles northwest of Pine Bluff.	.64	1961-71	7-24-71	6.80	37
07363450	Saline River tributary near Rison, Ark.	Lat 33°56'12", long 92°10'31", in NW¼NE¼ sec.18, T.9 S., R.10 W., Cleveland County, at culvert on State Highway 35, 1.8 miles southeast of Rison.	.27	1964-71	8- 3-71	4.88	9
07364030	Eagle Creek tributary near Hermitage, Ark.	Lat 33°24'48", long 92°12'33", in SE¼NW¼ sec.14, T.15 S., R.11 W., Bradley County, at culvert on State Highway 15, 3.3 miles southwest of Hermitage.	a.36	1963-71	3-13-71	3.72	9
07364070	Bear Creek near Strong, Ark.	Lat 33°04'32", long 92°19'33", in NE¼SE¼ sec.10, T.19 S., R.12 W., Union County, at bridge on State Highway 129, 2.9 miles southeast of Strong.	g6.0	1963-71	4-22-71	10.55	130
07364110	Nevins Creek tributary near Pine Bluff, Ark.	Lat 34°10'08", long 92°05'12", in NW¼SE¼ sec.26, T.6 S., R.10 W., Jefferson County, at culvert on U.S. Highway 79, 6 miles southwest of Pine Bluff. Prior to 1962 published as Bayou Bartholomew tributary near Pine Bluff.	.79	1961-71	1-24-71	d3.36	34
07364125	Cane Creek at Star City, Ark.	Lat 33°57'16", long 91°50'32", in SE¼SE¼ sec.5, T.9 S., R.7 W., Lincoln County, at bridge on State Highway 81, 0.9 mile north of junction of State Highways 11 and 81 in Star City.	g4.9	1962-71	2-21-71	7.97	810
07364165	Upper Cutoff Creek near Monticello, Ark.	Lat 33°44'20", long 91°44'51", in NW¼SW¼ sec.20, T.11 S., R.6 W., Drew County, at bridge on State Highway 83, 8.0 miles north of Monticello.	g18	1963-71	5-13-71	8.37	430
07364260	Hanks Creek near Hamburg, Ark.	Lat 33°10'06", long 91°49'42", in NW¼SE¼ sec.4, T.18 S., R.7 W., Ashley County, at bridge on U.S. Highway 82, 4.5 miles southwest of Hamburg.	g14	1962-71	3-13-71	6.65	110

a Revised.
d From digital recorder.
g Approximately.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Red River basin--continued					
07364550	Cany Creek tributary near ElDorado, Ark.	Lat 33°11'22", long 92°36'28", in NE¼NW¼ sec.1, T.18 S., R.15 W., Union County, at culvert on U.S. Highway 82, 3.5 miles southeast of ElDorado.	g.1	1961-71	7-24-71	7.53	59
07367658	Cypress Creek Canal No. 19 tributary near Dumas, Ark.	Lat 33°51'47", long 91°28'46", in SE¼NW¼ sec.2, T.10 S., R.4 W., Desha County, at culvert on U.S. Highway 65, 1.5 miles south of Dumas.	g.6	1961-71	1-24-71	8.95	246
07367665	Wards Bayou tributary at Montrose, Ark.	Lat 33°18'15", long 91°29'37", in SE¼SE¼ sec.15, T.16 S., R.4 W., Ashley County, at culvert on U.S. Highway 165, 0.4 mile north of junction of U.S. Highways 165 and 82 in Montrose.	g1.6	1961-71	5-13-71	6.01	150
07367740	Camp Bayou near Parkdale, Ark.	Lat 33°06'55", long 91°31'31", in SW¼SW¼ sec.21, T.18 S., R.4 W., Ashley County, at culvert on State Highway 8, 1.3 miles east of Parkdale.	g1.9	1963-71	12-20-70	7.60	165

g Approximately.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†).

Discharge measurements made at miscellaneous sites during water year 1971

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
St. Francis River basin						
Pemiscot Bayou	St. Francis River	Lat 35°59'30", long 89°52'26", in NE¼SE¼ sec.23, T.16 N., R.11 E., Mississippi County, at bridge on service road 50 feet downstream from Interstate Highway 55, 2.0 miles northeast of Yarbro, Ark., and 4.1 miles downstream from Crooked Lake Bayou.	(a)	-	4-27-71 9-16-71	9.74 85.5
White River basin						
Spring River	Black River	Lat 36°30'10", long 91°31'31", in SE¼SE¼ sec. 5, T.21 N., R.5 W., Oregon County, at bridge on county road, 0.6 mile east of U.S. Highway 63, 0.2 mile north of Missouri-Arkansas State line, and 1.1 miles southeast of Thayer, Mo.	(a)	-	4- 5-71 5- 4-71 9-28-71	64.8 55.4 *8.31
Myatt Creek	Spring River	Lat 36°31'04", long 91°44'18", in SE¼SW¼ sec.33, T.22 N., R.7 W., Howell County, at bridge on State Highway 142, 3.5 miles east of Lanton, Mo.	(a)	1964-67b	4- 5-71 5- 4-71	*2.52 *2.57
South Fork Spring River	Spring River	Lat 36°26'23", long 91°49'44", in SE¼NW¼ sec.34, T.21 N., R.8 W., Fulton County, at bridge on county road, 0.2 mile upstream from Mill Creek, and 4.8 miles north of Salem, Ark.	(a)	-	4- 5-71 6- 7-71 9-28-71	40.6 68.1 *11.8
Cache River	White River	Lat 36°26'01", long 90°21'30", in NW¼NE¼ sec.30, T.21 N., R.7 E., Clay County, at bridge on U.S. Highway 62, 1.7 miles east of McDougal, Ark., and 3.7 miles upstream from Little Cache River Ditch.	(a)	-	3-23-71 4-27-71 9-16-71	*3.29 *1.43 0
Arkansas River basin						
Little Sugar Creek	Big Sugar Creek	Lat 36°30'10", long 94°16'30", in SW¼NE¼ sec.34, T.21 N., R.21 W., McDonald County, at bridge on U.S. Highway 71 at Caverna, Mo., and 0.1 mile downstream from Bear Creek.	118	-	3-11-71 7-15-71 9-14-71	135 26.4 *10.3
Butler Creek	Elk River	Lat 36°30'44", long 94°28'54", in NW¼NW¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., at county bridge about 500 ft west of State Highway 59, 0.9 mile north of State line along Highway 59, and 2.0 miles northwest of Sulphur Springs, Ark.	34.9	-	3-11-71 7-15-71 9-14-71	46.3 *4.57 *2.42
Spavinaw Creek	Neosho River	Lat 36°32'50", long 94°29'19", in SW¼NE¼ sec.10, T.19 N., R.34 W., Benton County, at bridge on State Highway 99, 3.0 miles north of Cherokee City, Ark.	104	-	3-11-71 7-15-71 9-14-71	98.5 *17.8 *10.4
Illinois River	Arkansas River	Lat 36°06'31", long 94°32'00", in SE¼NE¼ sec.31, T.17 N., R.33 W., Benton County, at bridge on State Highway 59, 5.0 miles south of Siloam Springs, Ark.	575	-	3-12-71 7-16-71 9-15-71	517 121 74.2
Flint Creek	Illinois River	Lat 36°20'45", long 94°35'32", in NE¼SE¼ sec.23, T.18 N., R.34 W., Benton County, at bridge on State Highway 99, upstream from confluence with Little Flint Creek, and 3.0 miles northwest of Siloam Springs, Ark.	34.0	-	3-12-71 7-15-71 9-14-71	39.4 *11.0 *8.90
Sager Creek	Flint Creek	Lat 36°11'50", long 94°35'00", in SE¼NE¼ sec.24, T.20 N., R.25 E., Delaware County, Oklahoma, at bridge on county road, 0.8 mile west of State line, and 2.6 miles northwest of Siloam Springs, Ark.	(a)	-	3-12-71 7-15-71 9-15-71	15.3 *6.29 *2.92
Lee Creek	Arkansas River	Lat 35°38'45", long 94°23'36", in NW¼SW¼ sec.10, T.11 N., R.32 W., Crawford County, at bridge on State Highway 59, at Natural Dam, Ark.	168	1957-64c	3-11-71 7-16-71 9-15-71	185 *2.76 *2.47
Mountain Fork	Lee Creek	Lat 35°38'59", long 94°23'52", in SE¼NE¼ sec.9, T.11 N., R.32 W., Crawford County, at culvert on county road at Natural Dam, Ark., 1,800 ft upstream from mouth.	36.0	1957-63c	3-11-71 7-16-71 9-15-71	39.7 *.45 *.38
Frog Bayou	Arkansas River	Lat 35°31'32", long 94°16'18", in SW¼ sec.23, T.10 N., R.31 W., Crawford County, at bridge on State Highway 282 at Rudy, Ark., 0.5 mile downstream from Cedar Creek.	216	1950-70†, 1971d	5-11-71	3,530

* Base flow.
† Operated as a continuous-record gaging station.
a Not determined.
b Operated as a low-flow partial-record station by Missouri.
c Operated as a low-flow partial-record station.
d Operated as a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1971--continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Arkansas River basin--continued				
Bayou Meto e/	Arkansas River	Lat 34°27'15", long 91°36'58", in SE¼ sec.11, T.3 S., R.6 W., at bridge on U.S. Highway 79, 5.5 miles southwest of Stuttgart, Ark., and 8.0 miles upstream from Crooked Creek.	f574	1935-54†, 1968	3-17-71 4-22-71 5-26-71 9- 8-71	946 63.2 736 185
		Red River basin				
Mountain Fork	Little River	Lat 34°30'12", long 94°25'50", in NE¼NE¼ sec.17, T.3 S., R.32 W., Polk County, at bridge on State Highway 246, 3.1 miles northwest of Hatfield, Ark.	160	1962-67c	5- 4-71 6- 7-71 7-13-71 9-21-71	73.0 79.2 *3.74 70.0
Days Creek	Sulphur River	Lat 33°21'12", long 94°02'33", in SW¼NW¼ sec.19, T.16 S., R.28 W., Miller County, at bridge on Texas-Arkansas State line road, 5.2 miles south of junction of U.S. Highway 67 and State line road in Texarkana, Ark.	(a)	-	3- 1-71 4-13-71	39.9 12.6
Posten Bayou e/	Red River	Lat 33°00'26", long 93°46'32", in NE¼NE¼ sec.11, T.23 N., R.14 W., Bossier Parish, at bridge on Missionary Ferry Road, 3.0 miles northeast of Wardview, La.	(a)	-	3- 2-71 4-13-71	9.90 *1.00
State Line Creek	Black Bayou	Lat 32°59'40", long 94°00'28", in NE¼NW¼ sec.15, T.23 N., R.16 W., Caddo Parish, at bridge on Louisiana State Highway 1, 2.0 miles northwest of Rodessa, La.	(a)	-	3- 2-71 8-27-71	14.3 *4.22
Kelly Bayou	Black Bayou	Lat 33°00'12", long 93°51'46", in SW¼NE¼ sec.12, T.23 N., R.15 W., Caddo Parish, at bridge on Louisiana State Highway 168, 1.2 miles south of Arkansas-Louisiana State line and 1.7 miles east of Ida, La.	73	1968-71g	3- 2-71 4-13-71	35.4 12.1
Crooked Creek	Bayou Dorcheat	Lat 33°01'06", long 93°25'20", in SE¼SE¼ sec.7, T.20 S., R.22 W., Columbia County, at bridge on county road 200 ft north of Arkansas-Louisiana State line, and 2.6 miles east of Welcome, Ark.	(a)	-	4-14-71 5-17-71	*3.78 119
Cypress Creek	Bayou Dorcheat	Lat 33°01'02", long 93°19'19", in NE¼NW¼ sec.5, T.23 N., R.9 W., Webster Parish, at bridge on Louisiana State Highway 159, 200 ft south of Arkansas-Louisiana State line, and 5.0 miles north of Shongaloo, La.	(a)	-	3- 2-71 4-14-71	26.5 10.3
Bodcau Creek	Red Chute Bayou	Lat 33°02'41", long 93°31'14", in SW¼SW¼ sec.32, T.19 S., R.23 W., Lafayette County, at bridge on State Highway 160, 0.4 mile south of Lake Erling Dam, and 5.1 miles southwest of Taylor, Ark.	(a)	-	3- 2-71 4-13-71	326 76.1
Wheeler Creek	Martin Creek	Lat 33°01'47", long 93°38'36", in SW¼NW¼ sec.7, T.20 S., R.24 W., Lafayette County, at bridge on county road, 0.7 mile north of Arkansas-Louisiana State line, and 1.9 miles east of Arkana, Ark.	(a)	-	3- 2-71	0
Bear Creek	Martin Creek	Lat 33°01'56", long 93°37'37", in NW¼NW¼ sec.8, T.20 S., R.24 W., Lafayette County, at culvert on county road, 0.8 mile north of Arkansas-Louisiana State line, and 2.8 miles east of Arkana, Ark.	(a)	-	3- 2-71	0
Dooley Creek	Martin Creek	Lat 33°01'35", long 93°34'45", in SW¼NE¼ sec.10, T.20 S., R.24 W., Lafayette County, at bridge on county road 0.6 mile north of Arkansas-Louisiana State line, and 5.5 miles east of Arkana, Ark.	(a)	-	3- 2-71 4-14-71	7.39 *.10
Caddo River	Ouachita River	Lat 34°27'12", long 93°40'57", in NE¼SW¼ sec.28, T.3 S., R.25 W., Montgomery County, at bridge on county road, at Norman, Ark.	(a)	1970	6-14-71	*21.0
Caddo River	Ouachita River	Lat 34°23'50", long 93°37'18", in SE¼NE¼ sec.13, T.4 S., R.25 W., Montgomery County, at low-water bridge, at Caddo Gap, Ark.	115	1957-63c	6-14-71 6-16-71	*32.9 *32.0
Caddo River	Ouachita River	Lat 34°23'07", long 93°36'27", in NW¼NE¼ sec.19, T.4 S., R.24 W., Montgomery County, at bridge on State Highway 240, 1.2 miles southeast of Caddo Gap, Ark.	(a)	-	6-16-71	*34.3
Caddo River e/	Ouachita River	Lat 34°19'19", long 93°32'28", in SE¼NE¼ sec.10, T.5 S., R.24 W., Pike County, at bridge on U.S. Highway 70, at Glenwood, Ark.	192	1970	6-14-71 6-19-71	*40.2 *34.4

* Base flow.
† Operated as a continuous-record gaging station.
a Not determined.
c Operated as a low-flow partial-record station.
e Operated as a stage station by Corps of Engineers.
f At high stages Bayou Meto and Crooked Creek are interconnected and the combined area is 653 sq mi.
g Operated as a crest-stage partial-record station by Louisiana.

Discharge measurements made at miscellaneous sites during water year 1971--continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Red River basin--continued				
Caddo River	Ouachita River	Lat 34°17'22", long 93°27'32", in SW¼NW¼ sec.22, T.5 S., R.23 W., Clark County, at bridge on State Highway 182, 1.7 miles north of Amity, Ark.	(a)	-	6-21-71	*39.5
Caddo River e/	Ouachita River	Lat 34°16'00", long 93°22'00", in SW¼SE¼ sec.28, T.5 S., R.22 W., Clark County, at Runyan Bridge, 2.8 miles northeast of Alpine, Ark.		-	6-14-71	*51.2
Bayou Bartholomew e/	Ouachita River	Lat 33°57'38", long 91°47'07", in SW¼SW¼ sec.1, T.9 S., R.7 W., Lincoln County, at bridge on State Highway 11, 4.0 miles northeast of Star City, Ark., and 4.5 miles west of junction with State Highway 114.	215	1969-70	10- 6-70	*.60
					11-10-70	*1.55
					12- 8-70	h*1.0
					1-19-71	26.2
					2-25-71	168
					3-30-71	64.8
					5- 5-71	11.5
					6-22-71	0
					7-20-71	0
					8-24-71	107
Deep Bayou e/	Bayou Bartholomew	Lat 34°02'02", long 91°42'32", in NW¼NW¼ sec.16, T.8 S., R.6 W., Lincoln County, at bridge on State Highway 11, 3.8 miles south of Grady, Ark., and 5.0 miles north of junction with State Highway 114.	102	1969-70	10- 6-70	*.58
					11-10-70	17.5
					12- 8-70	*.81
					1-19-71	*1.12
					2-23-71	200
					3-30-71	17.4
					5- 5-71	*3.95
					6-10-71	9.83
					6-22-71	11.0
					7-20-71	*5.16
					8-24-71	29.0
Ables Creek	Bayou Bartholomew	Lat 33°49'26", long 91°44'04", in NE¼SE¼ sec.20, T.10 S., R.6 W., Lincoln County, at bridge on State Highway 54, 0.7 mile northeast of junction with State Highway 83, and 1.5 miles southwest of Tyro, Ark.	(a)	1969-70	11-11-70	*2.10
					12- 8-70	*.84
					1-19-71	*4.18
					2-23-71	59.8
					3-30-71	24.6
					5- 5-71	*5.74
					6-22-71	0
					7-20-71	0
					8-24-71	*2.48
Overflow Creek	Bayou Bartholomew	Lat 33°10'27", long 91°36'30", in SE¼SE¼SW¼ sec.34, T.17 S., R.5 W., Ashley County, at bridge on State Highway 8, and 5.1 miles northwest of Parkdale, Ark.	(a)	-	3-11-71	7.47
					4-13-71	*2.36
					5-18-71	41.1
					9- 1-71	0
Bayou De Loutre	Ouachita River	Lat 33°05'55", long 92°35'32", in SE¼NW¼ sec.6, T.19 S., R.14 W., Union County, at bridge on county road, 0.8 mile below Highbank Creek, and 8.5 miles southeast of El Dorado, Ark.	78.4	1959-64c	3- 3-71	48.7
					4-14-71	22.5
Little Cornie Creek	Cornie Bayou	Lat 33°00'42", long 92°58'24", in NW¼SE¼ sec.3, T.23 N., R.6 W., Claiborne Parish, at bridge on State Highway 161, 0.4 mile south of Arkansas-Louisiana State line and 3.9 miles northeast of Gordon, La.	(a)	-	3- 3-71	10.2
					4-14-71	*3.07
Little Cornie Bayou	Cornie Bayou	Lat 33°01'15", long 92°42'00", in SW¼SW¼ sec.31, T.19 S., R.15 W., Union County, at bridge on county road, 0.5 mile north of Arkansas-Louisiana State line, and 1.5 miles northeast of Junction City, Ark.	(a)	-	5-18-71	38.7
					8-31-71	*6.37
Canal 19 e/	Boeuf River	Lat 33°52'24", long 91°27'42", in NW¼NW¼ sec.36, T.9 S., R.4 W., Desha County, at bridge on State Highway 54, 1.2 miles east of Dumas, Ark.	162	1969-70	10- 6-70	*12.6
					12- 9-70	*13.9
					1-20-71	17.2
					2-24-71	166
					3-31-71	29.6
					5- 6-71	32.2
					6-23-71	56.8
					7-21-71	21.2
					8-25-71	61.5

* Base flow.
a Not determined.
c Operated as a low-flow partial-record station.
e Operated as a stage station by Corps of Engineers.
h Estimated.

Discharge measurements made at miscellaneous sites during water year 1971--continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Red River basin--continued				
Canal 19 e/	Boeuf River	Lat 33°36'20", long 91°17'45", in NE$\frac{1}{4}$NE$\frac{1}{4}$ sec.4, T.13 S., R.2 W., Desha County, at bridge on State Highway 4, 2.2 miles east of Trippe Junction, and 5.5 miles west of Arkansas City, Ark.	255	1969-70	10- 7-70	*11.8
					11-11-70	104
					12- 9-70	*13.4
					1-19-71	30.5
					2-24-71	618
					3-31-71	88.9
					5- 6-71	47.7
					6-23-71	30.7
					7-21-71	*12.4
					8-25-71	106
Canal 43 e/	Canal 81	Lat 33°36'21", long 91°16'40", in NE$\frac{1}{4}$NE$\frac{1}{4}$ sec.3, T.13 S., R.2 W., Desha County, at bridge on State Highway 4, 3.2 miles east of Trippe Junction, and 4.5 miles west of Arkansas City, Ark.	138	1969-70	10- 7-70	*5.43
					11-11-70	29.6
					12- 9-70	10.6
					1-20-71	*8.73
					2-24-71	190
					3-31-71	73.5
					5- 6-71	71.0
					6-23-71	*9.44
					7-21-71	*4.29
					8-25-71	62.3
Canal 81 e/	Bayou Macon	Lat 33°36'20", long 91°15'30", in SW$\frac{1}{4}$SW$\frac{1}{4}$ sec.36, T.12 S., R.2 W., Desha County, at bridge on State Highway 4, 3.2 miles west of Arkansas City, Ark.	157	1970	2-24-71	209
					3-31-71	65.2

* Base flow.

e Operated as a stage station by Corps of Engineers.

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